

Developing Questioning Attitude among Students at Higher Education level: Problems and Solutions**Dr. Atal Bihari Tripathy¹ & Mrs. Subhashree Mishra²**DOI: <https://doi-ds.org/doi/10.2025-62732936/ADEDJ/V2/I2/ATSM>

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Abstract

Developing a questioning attitude among students at the higher education level is crucial for fostering critical thinking, intellectual curiosity and deeper understanding. However, this endeavour faces significant challenges rooted in cultural and educational norms, fear of judgment, lack of confidence, inadequate instructor training, large class sizes, and traditional assessment methods. These issues inhibit students from actively engaging in inquiry and developing the necessary skills to question effectively. Addressing these challenges requires a multifaceted approach, including creating a supportive and inclusive classroom environment, modelling questioning behaviour, implementing interactive teaching methods, and providing professional development for instructors. Additionally, incorporating inquiry-based learning, reforming assessment strategies to value critical thinking, utilizing technology to facilitate anonymous questioning and encouraging interdisciplinary learning can further enhance students' questioning skills. By overcoming these obstacles, higher education institutions can cultivate a culture of inquiry, empowering students to become active learners, critical thinkers, and lifelong learners. At this juncture this paper highlights the importance of questioning by the students in the class, the problems and possible solutions associated with it.

Keywords: Questioning Attitude, Higher Education, Problems, Solutions**Introduction**

The development of a questioning attitude among students at the higher education level is essential for fostering a culture of critical thinking, innovation, and lifelong learning. Encouraging students to question not only what they learn but also how they learn it can lead to a deeper understanding of subjects, improved problem-solving skills, and greater academic engagement. However, despite its importance, cultivating a questioning attitude in higher education presents several challenges. These challenges stem from entrenched educational norms, psychological barriers, and structural limitations within the academic environment. Addressing these issues requires a multifaceted approach that involves creating supportive learning environments, equipping instructors with the necessary skills, and reforming assessment methods. This discussion explores the problems associated with developing a questioning attitude among students and proposes effective solutions to overcome these obstacles, ultimately aiming to enhance the overall quality of higher education.

The Skill of Questioning

The skill of questioning is a fundamental aspect of critical thinking and intellectual curiosity. It is the ability to ask insightful, probing questions that challenge assumptions, explore deeper meanings, and stimulate further investigation. Mastering this skill can significantly enhance learning experiences and academic performance at all levels of education, especially in higher education where complex and abstract concepts are frequently encountered.

Importance of Questioning

Paul and Elder (2000) highlighting the importance of questioning stated that questioning is central to critical thinking. They argued that the ability to formulate and ask questions is essential for analysing and evaluating information. Even Chin and Brown (2000) emphasized that questioning fosters deep learning. When students engage in questioning, they move beyond surface learning to a more profound comprehension of the material. Following points focus attention on the importance of questioning. The literature underscores the significance of developing questioning skills in higher education. Effective questioning enhances critical thinking, deep learning, and student engagement. While there are challenges, various strategies such as the Socratic method, collaborative learning, and problem-based learning can effectively cultivate these skills. Instructors play a crucial role in modelling and fostering a culture of inquiry. By overcoming barriers and implementing best practices, educators can significantly enhance students' questioning abilities, preparing them for academic and professional success.

1. **Promotes Deep Understanding:** Questioning encourages students to go beyond surface-level knowledge and explore the underlying principles and concepts. This leads to a more profound and comprehensive understanding of the subject matter. A

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study by King (1994) showed that students who were trained in questioning techniques had a better understanding of the material and performed better academically.

2. **Enhances Critical Thinking:** By questioning existing knowledge and viewpoints, students develop critical thinking skills. They learn to evaluate evidence, analyse arguments, and draw reasoned conclusions.
3. **Fosters Curiosity and Engagement:** A questioning attitude nurtures curiosity and keeps students engaged. It transforms passive learning into an active, dynamic process where students take ownership of their education.
4. **Encourages Lifelong Learning:** The ability to question effectively is a skill that extends beyond formal education. It is essential for lifelong learning, enabling individuals to adapt to new information and continuously grow intellectually.
5. **Improves Problem-Solving Skills:** Effective questioning helps students break down complex problems into manageable parts. It enables them to identify key issues, explore alternatives, and devise creative solutions.

Developing the Skill of Questioning

1. **Ask Open-Ended Questions:** Encourage students to ask questions that cannot be answered with a simple "yes" or "no." Open-ended questions stimulate deeper thinking and discussion.
2. **Encourage "Why" and "How" Questions:** These types of questions delve into the reasoning and processes behind facts and phenomena, promoting a deeper understanding.
3. **Foster a Safe Environment for Questioning:** Create a classroom atmosphere where all questions are valued and respected. Students should feel comfortable expressing their curiosity without fear of judgment.
4. **Teach Questioning Techniques:** Educate students on various questioning techniques, such as Socratic questioning, which involves asking a series of questions to stimulate critical thinking and illuminate ideas.
5. **Model Questioning Behaviour:** Instructors should demonstrate how to ask effective questions. By modelling curiosity and inquiry, they can inspire students to adopt a similar approach.
6. **Provide Feedback on Questions:** Offer constructive feedback on the questions students ask. Highlight what makes a question effective and provide suggestions for improvement.
7. **Integrate Questioning into Assessments:** Design assignments and exams that require students to formulate and answer their own questions. This encourages them to practice and refine their questioning skills.
8. **Encourage Reflection:** Have students reflect on their own questioning process. What types of questions did they ask? How did these questions help them understand the material better?

By deliberately cultivating the skill of questioning, educators can empower students to become active, engaged learners capable of navigating complex information landscapes and contributing meaningfully to academic and professional discourse

Problems Indicating Students' Inferiority in Asking Questions in the Class

In the realm of higher education, fostering an environment where students feel confident to ask questions is crucial for their academic and personal growth. However, many students experience a sense of inferiority or hesitation when it comes to posing questions in the classroom. This reluctance can significantly impede their learning experience and stifle intellectual curiosity. The root causes of this issue are multifaceted, encompassing fear of judgment, lack of confidence, cultural norms, peer pressure, and the attitudes of educators themselves. Addressing these barriers is essential for creating an inclusive and dynamic educational environment where all students can thrive. This discussion explores the underlying problems contributing to students' inferiority in asking questions and offers practical solutions to cultivate a classroom culture that encourages and values inquiry.

1. **Cultural and Educational Norms:** Many educational systems, especially those with a focus on rote learning, do not encourage questioning or critical thinking. Students may be conditioned to accept information passively rather than challenge it.
2. **Fear of Judgment:** Students may fear being judged by peers or instructors for asking questions that may seem basic or irrelevant. This can create an environment where students are reluctant to express their curiosity.
3. **Lack of Confidence:** Some students may lack the confidence to ask questions, especially in a new or intimidating academic environment. This is often exacerbated if they have previously been discouraged from questioning in their prior education.
4. **Inadequate Training for Instructors:** Instructors themselves may not be trained to foster a questioning attitude. They may prioritize delivering content over encouraging student engagement and inquiry.
5. **Large Class Sizes:** In large lecture halls, individual student engagement can be challenging. It becomes difficult for instructors to address all questions and promote a questioning attitude among all students.
6. **Assessment Methods:** Traditional assessment methods often focus on memorization and regurgitation of information rather than critical thinking and inquiry. This can discourage students from developing a questioning attitude.
7. **Peer Pressure:** Students may fear that their peers will perceive them as less knowledgeable or intelligent if they ask questions. This peer pressure can significantly inhibit their willingness to engage in classroom discussions.

Solutions (Strategies for developing Questioning Attitude)

1. **Encouraging a Safe Learning Environment:** Create a classroom culture where questions are welcomed and valued. Encourage students to express their thoughts without fear of judgment. This can be achieved through positive reinforcement and by addressing all questions with respect and consideration.

2. **Modelling Questioning Behaviour by the teacher:** Teachers should model a questioning attitude themselves. By posing questions to students and demonstrating curiosity, instructors can set an example for students to follow.
3. **Use of Interactive Teaching Methods:** Use teaching methods that promote active learning and engagement. This includes group discussions, problem-based learning, case studies, and Socratic questioning techniques.
4. **Training and Development for Teachers:** Provide professional development opportunities for teachers to learn how to foster a questioning attitude. This can include workshops on active learning strategies, questioning techniques, and creating inclusive classroom environments.
5. **Small Group Activities:** Break large classes into smaller groups to facilitate discussion and questioning. Smaller groups can create a more intimate setting where students may feel more comfortable asking questions.
6. **Incorporating Inquiry-Based Learning:** Design curricula that emphasize inquiry-based learning. Encourage students to formulate their own questions and explore answers through research and experimentation.
7. **Assessment Reforms:** Develop assessment methods that value critical thinking and problem-solving over rote memorization. This can include open-ended questions, project-based assessments, and reflective essays.
8. **Feedback Mechanisms:** Provide regular, constructive feedback on students' questions and inquiries. Highlighting the importance of their questions can reinforce the value of a questioning attitude.
9. **Use of Technology:** Garrison and Vaughan (2008) point out that technology, such as online discussion forums and learning management systems can provide platforms for students to ask questions and engage in discussions outside of the classroom. Leverage technology to create platforms where students can ask questions anonymously. Online discussion forums, interactive polls and other digital tools can facilitate questioning in a less intimidating manner.
10. **Encouraging Interdisciplinary Learning:** Promote interdisciplinary studies and projects that require students to think critically and question established knowledge from various perspectives.
11. **Provide Anonymous Questioning Options:** Use technology to allow students to ask questions anonymously. Online discussion boards, interactive polls, and anonymous question submission tools can help students feel more comfortable.
12. **Offer Positive Reinforcement:** Praise students for asking questions and provide positive feedback. Highlight the importance of their inquiries and how they contribute to the learning experience of the entire class.
13. **Training of Teachers in Effective Communication:** Provide professional development for instructors on how to foster a supportive and inclusive classroom environment. Training can include techniques for encouraging student participation and handling questions effectively.
14. **Use Socratic Questioning Techniques:** Employ Socratic questioning to engage students in deeper thinking and to demonstrate the value of inquiry. This method encourages students to think critically and explore ideas more thoroughly.
15. **Address Language Barriers:** For students facing language difficulties, provide additional support such as language assistance programs, tutoring, and the use of clear, accessible language in class.
16. **Normalize Mistakes:** Encourage a growth mindset by normalizing mistakes as part of the learning process. Reassure students that asking questions and making errors are essential steps toward understanding and mastery.
17. **Collaborative Learning:** Gokhale (1995) found that collaborative learning environments, where students work together and question each other's ideas, enhance questioning skills. This approach not only improves individual questioning ability but also promotes a culture of inquiry.

Role Perception of the Teacher with reference to Developing Questioning Attitude**Facilitator of Learning:**

Guidance Over Instruction: View yourself as a guide who helps students navigate their own learning journey rather than just a provider of knowledge.

Encourage Autonomy: Empower students to take charge of their learning by encouraging them to ask questions and seek answers independently.

Mentorship:

Personalized Support: Provide one-on-one mentoring to help students develop their questioning skills and intellectual curiosity.

Role Modelling: Act as a role model by exhibiting a questioning attitude and demonstrating lifelong learning.

Creating a Safe Environment:

Psychological Safety: Create an atmosphere where students feel safe to express their thoughts and questions without fear of ridicule or negative judgment.

Respect and Inclusivity: Foster a classroom culture that respects diverse opinions and encourages all students to participate.

Conclusion

Developing questioning skills among students at the higher education level is crucial for fostering critical thinking, enhancing learning, and preparing them for professional and personal challenges. By addressing these challenges with targeted solutions, higher education institutions can cultivate an environment where students feel empowered to ask questions, engage deeply with the material, navigate complex issues and develop critical thinking skills essential for their academic and professional futures. By adopting interactive and engaging teaching styles and viewing their role as facilitators and mentors, teachers at the higher education level can significantly

enhance a questioning attitude among students. Creating a supportive and inclusive environment where curiosity is encouraged and valued is key to developing independent, critical thinkers prepared for the complexities of the modern world.

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