

# Students Self-Assessment: A Review

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**Abstract** – Self-assessment is considered as a part of study process, as it helps students in understanding the learning process, and in all of its aspects. Also, to succeed academically and in life, and to understand the progress being made by the learners, the need for the self-assessment has grown.

**Keywords** – Self-assessment, Learning

## I. INTRODUCTION

Assessment is considered to be a vital element among others such as teaching, learning etc. in the studies, and even assessment process goes along with the learning process and even influences it. Assessment of students in higher education is considered as a part of the study process in Laxmi Devi Institute of Engineering & Technology.

In order to improve students' learning and effectiveness of studies, assessment is conducted periodically. Analysis of pervious research, and also other scientific literature, revealed that the main component of periodic assessment influencing effectiveness of studies positively is the frequency of assessment, feed-back and self-assessment.

Although, self-assessment is defined in various ways, it can be mentioned that all definitions of self-assessment illustrate it as a learner's activity in which decisions are taken regarding their own progress, performance and achievement for the set criterion in order to improve the learning and effectiveness of studies. This may encompass different processes in order to make sound decision.

Furthermore, our research revealed that influence of self-assessment to student's learning also enhances academic results, also helps to develop personal competencies, orientation ability, cultivation of self-control, along with other factors such as training of independence, education of active citizen and long-life learner, and foster intrinsic motivation to study.

## II. RESEARCH METHODOLOGY

Student self-assessment is a form of authentic evaluation in which each student reflects on her/his qualities and shortcomings in order to recognize learning needs and strengthen shortcomings with the aim of improving performance.

For the research, a case of full-time studies at Laxmi Devi Institute of Engineering & Technology was decided upon. An originally created questionnaire concerning self-assessment was used for the research. The questionnaire consist of open questions about the students' opinion concerning self-assessment was applied. All the questions were

formulated in such a way as to empower students who given answers to them, to refer to their own involvement in the studies, by concluding personal growth.

The characteristics of self-assessment were analysed with the aim of finding out influence on the development of students' learning and effectiveness of studies at the Institute.

The answers to the questionnaire revealed the effectiveness of the studies. The content of self-assessment can be exceptionally supportive for teachers in getting information about students' advances and challenges concerning studies. Moreover, the said data is imperative for the students as well.

## III. RESEARCH OUTCOMES

Students evaluated themselves on the said parameters by ranking the assessment components i.e. quality producer, effective communicator, life-long learner, responsible citizen, perceptive thinker, and self-directed individual in relation to the effectiveness of studies.

Analysing, the assessment components critically for the influencing effectiveness of studies, below mentioned patterned observation was revealed by the feedback provided in the self-assessment by the students.

That figures as illustrated below prove that self-assessment is important for the students. Furthermore, it was observed that most of the surveyed students pointed out that, in their opinion, they better understands the effectiveness of studies for which self-assessment was applied.

That figures also prove that self-assessment is important for the students and this matter is worth to be explored more deeply. However, the teacher's opinion or other parameters of the evaluation of study effectiveness were not taken into consideration.

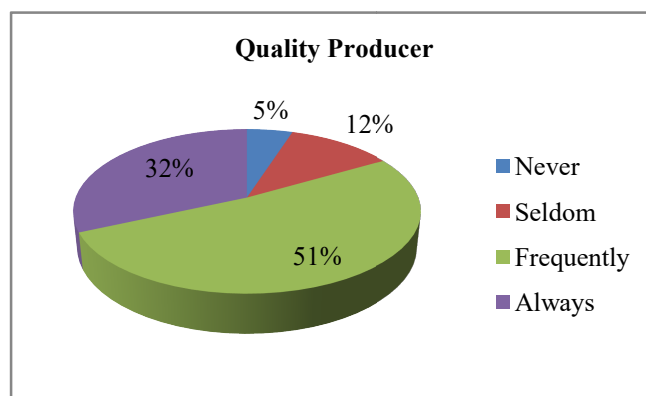


Figure 1: Quality Producer.

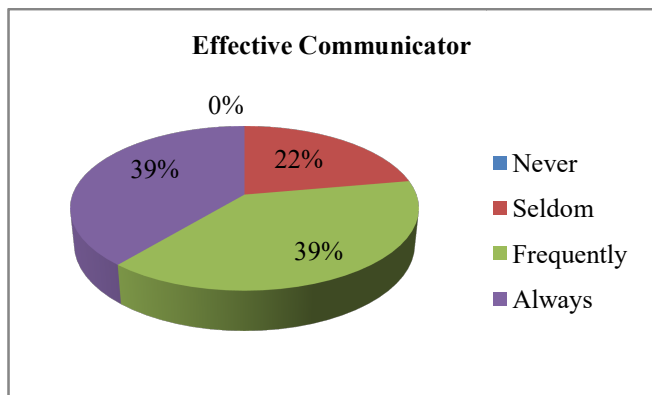


Figure 2: Effective Communicator.

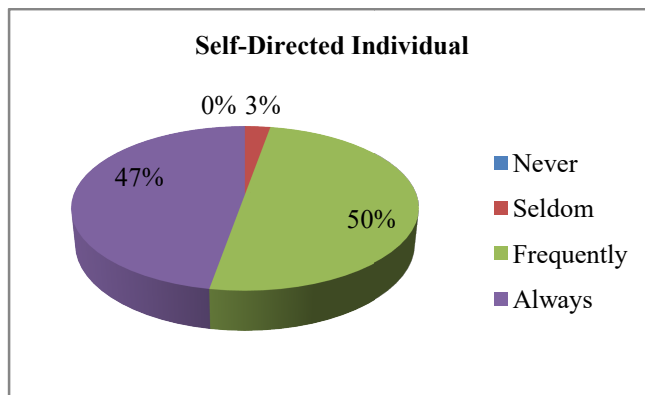


Figure 6: Self-directed Individual.

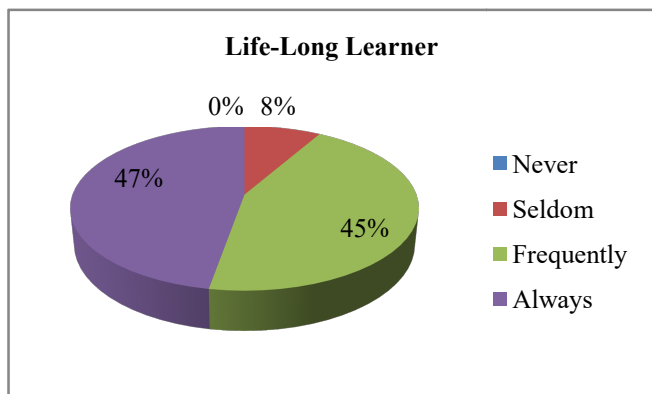


Figure 3: Life-long Learner.

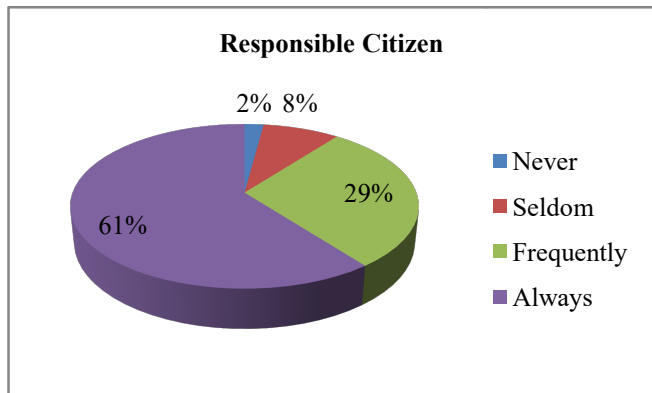


Figure 4: Responsible Citizen.

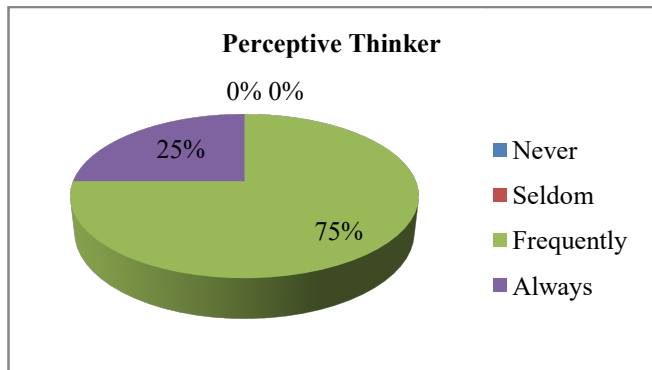


Figure 5: Perceptive Thinker.

Also, in most of the cases of self-assessment, students identified their learning difficulties. This fact has to be taken for the thought by the teachers, since appropriate identification of learning difficulties by the students themselves is a great begin for the organization, by supporting autonomous learning and taking more responsibility for studies by the students, which is critical in the improvement of proficient competencies in life-long learning viewpoint.

#### IV. CONCLUSION

As established by the research, self-assessment empowered students to progress their person learning and to become more mindful for their think about results, which was critical in the context of the learning. This is also noteworthy for the studies at Laxmi Devi Institute of Engineering & Technology.

#### REFERENCES

- [1]. G. May, and L. Gueldenzoph, "The effect of social style on peer evaluation ratings in project teams," *Journal of Business Communication*, vol. 43(1), pp. 4-20, 2006.
- [2]. J. Fitzpatrick, "Self-assessment as a strategy to provide interactive learning within a professional degree programme," *Learning in Health and Social Care*, vol. 5(1), pp. 23-34, 2006.
- [3]. M. Wen, and C. Tsai, "University Students' Perceptions of and Attitudes toward (Online) Peer Assessment," *Higher education*, vol. 51(1): pp. 27-44, 2006
- [4]. S. Cassidy, "Developing employability skills: Peer assessment in higher education," *Education & Training*, vol. 48(7), pp. 508-517, 2006.
- [5]. Cambra-Fierro, and J. Cambra-Berdun, "Students' self-evaluation and reflection, part 2: An empirical study," *Education & Training*, vol. 49(2), pp. 103-111, 2007.
- [6]. N. Kirby, and C. Downs, "Self-assessment and the disadvantaged student: Potential for encouraging self-regulated learning?," *Assessment and Evaluation in Higher Education*, vol. 32(4), pp. 475-494, 2007.
- [7]. N.W. Petty, and T. Green, "Measuring Educational Opportunity as Perceived by Students: A process indicator," *School Effectiveness and School Improvement*, vol. 18 (1), pp. 67-91, 2007.
- [8]. D. Baker, "Peer assessment in small groups: a comparison of methods," *Journal of Management Education*, vol. 32(2), pp. 183-209, 2008.
- [9]. I. Colthart, G. Bagnall, A. Evans, H. Allbutt, A. Haig, J. Illing, and B. McKinstry, "The effectiveness of self-assessment on the identification of learner needs, learner activity, and impact on clinical practice," *Medical Teacher*, vol. 30(2), pp. 124-145, 2008.
- [10]. J.A. Ross, and M. Starling, "Self-assessment in a technology

- supported environment: The case of grade 9 geography,” *Assessment in Education: Principles, Policy & Practice*, vol. 15(2), pp. 183-199, 2008.
- [11]. L.M. Garcia, and N.P. Roblin, “Innovation, research and professional development in higher education: Learning from our own experience,” *Teaching and Teacher Education: An International Journal of Research and Studies*, vol. 24(1), pp. 104–116, 2008.
- [12]. V. Malone, and P.V. Pederson, “Designing assignments in the social studies to meet curriculum standards and prepare students for adult roles,” *Clearing House: A Journal of Educational Strategies, Issues and Ideas*, vol. 81(6), pp. 257–262, 2008.
- [13]. J. Mort, and D. Hansen, “First-year pharmacy students' self-assessment of communication skills and the impact of video review,” *American Journal of Pharmaceutical Education*, vol. 74(5), 2010.
- [14]. M. Ohland, “The Comprehensive Assessment of Team Member Development of a Behaviorally Anchored Rating Scale for Self- and Peer Evaluation,” *Academy of Management Learning and Education*, vol. 11(4), pp. 609-630, 2012.
- [15]. M. Borrego, “Team Effectiveness Theory from Industrial and Organizational Psychology Applied to Engineering Student Project Teams: A Research Review,” *Journal of Engineering Education*, vol. 102(4), pp. 472-512, 2013.
- [16]. I. Bartusevičiene, “Self-evaluation as an Attribute of Formative Assessment of Students' Achievements in Maritime Studies”, *International Journal on Marine Navigation and Safety of Sea Transportation*, vol. 8, no. 2, pp. 239-244, 2014.
- [17]. R. Tucker, “Sex does not matter: gender bias and gender differences in peer assessments of contributions to group work,” *Assessment and Evaluation in Higher Education*, vol. 39(3), pp. 293-309, 2014.
- [18]. C. Roster, L. Lucianetti, and G. Albaum, “Exploring slider versus categorical response formats in web-based surveys,” *Journal of Research Practice*, vol. 11(1), 2015.
- [19]. J. Weidhaas, “Engineering Student Self-Assessment of Performance in a Team Setting: Realism versus Fantasy,” *American Society for Engineering Education*, 2017.