

IMPROVEMENT AND IMPLEMENTATION OF CONTEMPORARY EDUCATION SYSTEM

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Abstract— In this paper our aim is to highlights the needs for the replacement of the traditional education system with the contemporary education system. The contemporary education system is often compared to traditional education, which is more focused on rote learning, memorization, and the transmission of information from teacher to student. The contemporary education system refers to the current and modern approach to education. It emphasizes on the use of technology, practical learning, critical thinking, and creativity to provide students with the necessary skills and knowledge to succeed in a rapidly changing world. In this paper, elaborate the various ways of contemporary education system which emphasizes on hands-on learning experiences, project-based learning, and student-centered approaches that help students to learn in a more engaging and effective way. The contemporary education system helps to prepare students for the real world by equipping them with the ability to think critically, solve problems, communicate effectively, work collaboratively, and adapt to changing situations.

Keywords:- Traditional system, Contemporary system, Assessment; Evaluation, divergent assessment, TBL

1. INTRODUCTION

These days it is required to concentrate the nature of the learning appraisal and assessment process in the instructive framework. Assessment in the training framework is a procedure of the social occasion, assessing and translating data about personnel and learning with a specific end goal to settle on educated choices that upgrade understudy accomplishment and the achievement of instructive.

Five fundamental parts assess the procedure of the framework

- 1) Communicate the reason for the instructive framework.
- 2) Recognizing and assembling pertinent data.

3) Having thoughts that are important and helpful to students in their lives and callings.

4) Scrutinizing and understanding data for students.

5) Classroom administration or classroom basic leadership.

The Objective of classroom evaluation is that the understudies will get or not get the calculated un truths specialized information, which he or she applies being developed of the country amid his or her expert work.

Assessment

It is a procedure by which information is acquired in respect to some known target or objective. Evaluation is a wide term that incorporates testing. A test is an uncommon type of appraisal. Tests are evaluations made under devised conditions particularly with the goal that they might be controlled.

Evaluation

Is perhaps the most complex and least understood of the terms. Inherent in the idea of evaluation is "value." When we evaluate, what we are doing is engaging in some process that is designed to provide information that will help us make a judgment about a given situation. Generally, any evaluation route requires data about the situation in question, sum up, we measure distance, we assess learning, and we evaluate results in terms of some set of criteria.

Measurement

Outside, its general definition suggests to the arrangement of strategies and the standards for how to utilize the methods in instructive tests and evaluations. A portion of the essential standards of estimation in instructive assessments would be raw scores, percentile positions, determined scores, standard scores, etc. These three terms are to be sure associated, however, it is useful to consider them isolated yet associated considerations and procedures.

Significance of Assessment

To start with and driving, assessment is imperative since it energizes students learning. In any case, most students tend to concentrate their energies on the best or most quick approach to pass their 'tests.' Based on this information, we can utilize our appraisal techniques to work the sorts of discovering that happens. Educational assessment is the deliberate procedure of reporting and utilizing experimental information on the information, aptitude, dispositions, and convictions to refine programs and enhance students learning. Assessment is a key part of learning since it enables students to learn. At the point when students can perceive how they are getting along in class, they can and don't need to be characterized. Try not to utilize contractions in the title or heads unless they are unavoidable.

Assessment helps students, appraisal helps educators.

2. TYPES AND APPROACHES TO ASSESSMENT

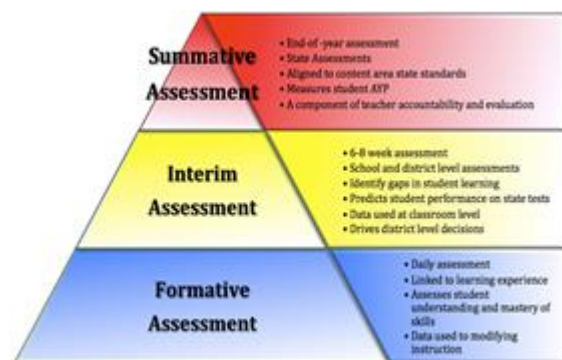


Fig No Types and Approaches to assessment
Formative vs. Summative Assessment

The objective of developmental evaluation is to screen students figuring out how to give continuous criticism that can be utilized by educators to enhance their instructing and by students to enhance their learning. developmental appraisals: enable understudies to recognize their qualities and shortcomings and target zones that need work. Developmental evaluation is expected to enable the figuring out how to process by giving input to the student, which can be utilized to distinguish qualities and shortcoming and thus enhance future execution. Developmental appraisal is most proper where the outcomes are to be utilized inside by those associated with the learning procedure (students, educators, educational programs engineers). Occasional tests can be utilized amid the developmental appraisal procedure to screen students learning and change guideline amid a lesson or unit. Valuable tests won't just outfit educators with input on their understudies; however, they serve to enable students to assess their own learning.

Summative assessment is utilized for the most part to settle on choices for reviewing or decide availability for movement. The objective of summative appraisal is to assess students learning toward the finish of an instructional unit by contrasting it against some standard or benchmark. Summative appraisals are frequently high stakes, which implies that they have a high point esteem. Cases of summative assessment include: a midterm exam, a last venture. Ordinarily summative evaluation happens toward the finish of an instructive action and is intended to judge the student's general execution. Notwithstanding giving the base

to review task, summative appraisal is utilized to interface students' capacities to outer partners, e.g., overseers and bosses

2.1 Informal vs. Formal Assessment

Formal assessment has information which bolster the conclusions produced using the test. We ordinarily allude to these sorts of tests as institutionalized measures. Casual appraisals some of the time alluded to as model referenced measures or execution based measures, ought to be utilized to illuminate instruction. With casual evaluation, the conclusions are joined with other ranch obligations, e.g., instructor input on the response to question or preceptor criticism given while execution a bedside strategy. Casual appraisal is frequently used to pass on developmental input. In that capacity, it has a tendency to be less threatening and in this way less distressing to the understudy. In any case, casual input is inclined to high subjectivity or partiality.

Formal assessment emerges when understudies know that the undertaking that they are doing is for evaluation conclusions, e.g., a composed examination. Most formal evaluations likewise are summative in nature and in this manner have a tendency to have more noteworthy motivation affect and are connected with expanded pressure. Given their character in basic leadership, formal appraisals ought to be held to cutting edge measures of trustworthiness and levelheadedness than casual evaluations

2.2 Continuous vs. Final Assessment

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2.3 Process vs. Product Assessment

Process evaluation centers around the means or methods basic a specific capacity or assignment, i.e., the intellectual strides in playing out a numerical task or the strategy associated with investigating a blood test. Since it gives more exhaustive data,

process appraisal is most valuable when an understudy is taking in another aptitude and for giving developmental input to help in enhancing execution.

Item appraisal accentuations on assessing the outcome or result of a procedure. Utilizing the above illustrations, we would center around the response to the match calculation or the precision of the blood test comes about. Item evaluation is most fitting for recording capability or capacity in a given expertise, i.e., for summative purposes. When all is said in done, item evaluations are simpler to make than item appraisals, requiring just a determination of the characteristics of the last item.

2.4 Divergent vs. Convergent Assessment

Divergent Assessment are those for which a scope of answers or arrangements may be viewed as right. Illustrations incorporate ordinary tests, and answers for the common sorts of vague issues postured in PBL. Dissimilar appraisals have a tendency to be more valid and most fitting in assessing higher intellectual abilities. Be that as it may, these kinds of appraisal are frequently tedious to assess and the subsequent choices regularly display modest dependability.

Convergent Assessment has just a single right reaction (per thing). Target test things are the best case and exhibit the estimation of this approach in evaluating learning. Clearly, focalized appraisals are less demanding to assess or score than different evaluations. Lamentably, this "availability" frequently prompts their across-the-board use of this approach notwithstanding when as opposed to great evaluation hones. In particular, the recognition and straightforwardness with which joined appraisal apparatuses can be connected prompts two basic assessment paradoxes: the Fallacy of False Quantification (the inclination to center around what's most effortless to quantify) and the Law of the Instrument Fallacy (forming the assessment issue to fit the device)

3. Implementation of Convergent and Divergent assessment in Technology Based Learning

Technology based learning (TBL) constitutes learning by means of electronic innovation, including the Internet, intranets, satellite communicates, sound and video conferencing, announcement sheets, visit rooms, webcasts. TBL likewise envelops related terms, for example, web based learning and electronic discovering that lone incorporate discovering that happens by means of the Internet, and PC based discovering that is limited to learning using PCs. E-learning is synonymous with TBL and has to a great extent supplanted it in grant and industry as the term of decision

4. Assessment tools for TBL

Assessment Tools are designed for Technology Based Learning (TBL). The best use of technologies is when their capabilities align with our advising goals. To help advisors achieve better student learning outcomes and improve program assessment, this article will use of technology and combine these with elements of the curriculum development model called Understanding by Design. Integrated, these two models offer a conceptual way to reconsider how to organize learning outcomes and program assessment. Following are some tools

that will help to assess the Technology Based Learning using convergent and divergent assessment

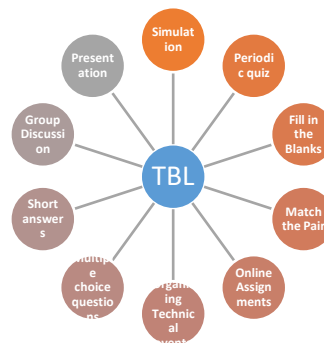


Fig No 2:- Convergent and Divergent Assessment Tools for TBL

What is our general goal and understanding?

TBL holds the promise of substantially transforming the way learning takes place because of its numerous advantages. Among these, TBL fosters greater accessibility to learning by offering anytime and anywhere delivery. It is readily scalable to both large and small groups since it can accommodate larger numbers of learners at little extra cost and smaller groups of learners that otherwise would not be able to participate in traditional classroom training for lack of enrollments.

General Goal	Understandings	Essential questions
Students will engage in self-assessment and educational and career planning.	Satisfaction and success in educational and career endeavors are more likely when there is compatibility between one's interests, abilities, and values and one's college major and future work.	How can students discover the relationship between their self-knowledge and educational and career possibilities?

Table No 1:- Goal and Understanding

4.1 Evaluations

In start of this paper we talked about in regards to the evaluations and its compose. Presently in this piece of paper , we are attempting to expand the significance of assessment and its compose . We are simply centers around two sorts of assessment. Understudy assessments are just a single of numerous techniques which have been utilized for assessing

Learning Taxonomies and Student Tools for Evaluation Regardless of the scientific categorization utilized, the main issue is that distinctive kinds of assessment instruments are better at assessing diverse levels of understudy learning. Utilizing the general learning objective introduced before, the diagram underneath recommends connections between: 1) evaluation confirm, 2) sorts of advances recognized under learning, and 3) particular computerized appraisal instruments utilized as a part of particular innovations.

Assessment evidence	Technology	Assessment tools within selected technology
Demonstrates understanding of the assignments for TBL	Learning Management System (LMS)	Use of quizzes: either fill-in-the-blank or matching terms to definitions
Can describe the relationship between self-assessment and educational and vocational options	LMS	Use of a rubric to assess quality of students' response in a written paper submitted to the LMS
Can provide reasons for choice of educational major and vocational direction	e-Portfolio	Use of rubrics to assess 1) relationship between students' self-assessments and selection of major and vocational direction, 2) quality of presentation, and 3) quality of the explanation of choices

Table No 2 :- Assessment Evidence and Technology

The movement delineated in this table demonstrates that innovation devices for assessing understudies can be separated as far as their adequacy at various levels of understudy learning. Innovation apparatuses ought to be lined up with understudy learning results starting with basic devices found in most Learning Management Systems (e.g., tests, fill-in-the-clear, coordinating, and short answer reactions).

Assessment devices at this level tend to center around the lower levels of learning scientific classifications: data analyzed, or clarifying. More mind boggling learning results require more refined innovation devices including apparatuses that take into consideration composing papers exhibiting watchful reflection on the investigation procedure or presenting a scholastic and vocation investigation venture in an e-Portfolio device. These more advanced endeavors frequently depend on utilization of rubrics for assessing understudy learning (illustration). Assessment apparatuses at this level tend to center around the more elevated amounts of the learning scientific categorizations that look for exhibits of meta-psychological levels of mindfulness.

Such ways to deal with assess understudies are natural to scholarly counsels in conventional learning settings.

At the point when guides utilize fitting innovations to help survey understudies learning, two basic focal points are obvious: 1) content modules identified with particular learning results can without much of a stretch be adjusted to assessment apparatuses through a LMS or e-Portfolio and 2) consequences of understudy learning are carefully put away in connection to particular learning results.

5. WAYS TO MEASURES

Instruction examiners now ordinarily acknowledge the thought that utilizing different measures of understudy learning and educator viability is a vital part of instructor appraisal and assessment. Notwithstanding, the current political condition has added to a confusing of this idea. A few montages locale utilized understudy accomplishment, frequently estimated by a solitary test, as the key measure of instructor adequacy. In a few examples, understudy accomplishment has represented 50 percent of an instructor's assessment. Such nearsighted dependence on a solitary measure neglects to catch the complexities and subtleties of educating. It likewise neglects to perceive the extensive variety of manners by which educators add to understudy development and learning.

To be compelling, an instructor appraisal and assessment framework must utilize a deliberately developed arrangement of various measures. For instance, the utilization of different measures fortifies instructor assessment by giving a more total photo of an educator's commitment to understudy learning; by expanding trust in the consequences of an educator's assessment; and by expanding the data accessible about joint effort for understudy achievement.

The utilization of a deliberately developed arrangement of numerous measures adds to instructor's expert development by making open doors for educators to gain from their associates, and by furnishing educators with more prominent knowledge into how their guidelines are influencing understudy learning.

The phase for enhanced instructing and learning by offering some more total confirmation about understudy learning development, especially in zones where understudies are not tried; by offering more entire proof of learning development for English dialect students and understudies with incapacities; and by adding to a far reaching perspective of understudies' qualities and shortcomings.

5.1 Multiple measures of student growth and learning:-

Standardized test scores are only one indicator of student growth and learning and should not be the primary source of information used for measuring student growth. Other forms of evidence and data include:

- Local and district-wide achievement test results
- Student work that shows evidence of student growth
- Assessments of subject matter
- Students' oral and written presentations
- Learning goals developed by the teacher or principal
- Project-based inquiry activities
- Teacher-generated information about student growth and goals
- Formative and summative student assessments

Evaluations of effective engagement, critical thinking, self-efficiency or a combination.

Multiple measures of teacher effectiveness:

Students learning information ought not be the main critical wellspring of data for estimating instructor execution, nor should it be the essential

Other conceivable sources include:

- Assessment of educator hone in light of thorough gauges of training, which could incorporate classroom perceptions, executive assessments, and instructor evaluator gatherings
- Use of portfolios, confirm folios, meeting introductions, and instructional antiques to indicate showed achievement and utilization of new learning and aptitudes
- Use of data gave through developmental evaluations, peer surveys, proficient learning groups, and different types of criticism and support
- Evidence of student's development and learning in light of numerous measures

Outcomes of Convergent and Divergent Assessment

After reading this paper, you should be able to:

- Discuss the advantages and disadvantages of convergent and divergent evaluations.
 - Explain the various uses of teacher evaluations and discuss the controversies surrounding them.
- Discuss the various types of student ratings and how they should be administered.
- Discuss the reliability of student ratings and contrast it to the reliability of other evaluation methods.
- Discuss the validity of student ratings. Defend a position pros or cons that student ratings are valid.
- Delineate the extraneous variables which affect student ratings and outline a procedure to minimize the effects of these variables.
- Discuss other evaluation procedures and how they can complement student ratings to help improve teaching.

6. CONCLUSION

Improving and implementing a contemporary education system requires a comprehensive approach that involves various stakeholders, including educators, policymakers, parents, and students.

Emphasize Practical Learning: The contemporary education system should focus on practical learning experiences that enable students to apply theoretical knowledge to real-world situations

Encourage Critical Thinking and Creativity by introducing project base learning in system .The contemporary education system should emphasize on developing students' critical thinking and creativity skills, which are essential for problem-solving, innovation, and adaptability.

Research Base Learning: The contemporary education system should promote collaborative learning, which allows students to work together, share ideas, and learn from each other. Collaborative learning can be facilitated through group projects, peer teaching, and cooperative learning activities.

The contemporary education system helps to prepare students for the real world by equipping them with the ability to think critically, solve problems, communicate effectively, work collaboratively, and adapt to changing situations. It also emphasizes the importance of lifelong learning and encourages students to take responsibility for their own learning.

In short, improving and implementing a contemporary education system requires a collective effort that involves a comprehensive approach from educators, policymakers, parents, and students. The goal is to provide students with the necessary skills and knowledge to succeed in a rapidly changing world.

References

- [1] Ninad, K. V., Hemant, K. P., & Raghvendra, S. R. (2022). Integrated Laboratory Practices in the Question Papers. *Journal of Engineering Education Transformations*, 36.
- [2] Gijare, V. V., & Kasturiwale, H. P. (2022). Assessment System or Method for Developing Attitude Competency and Mindset of learners. *Journal of Engineering Education Transformations*, 36(Special Issue 1).
- [3] Darling-Hammond, L. (2010). "Recognizing and Developing Effective Teachers: What Policy Brief: Policy
- [4] Association. Danielson, C. and McGreal, T. (2000). "Teacher Evaluation to Enhance Professional Practice." Alexandria, Association for Supervision and Curriculum Development .
- [5] Angelo, T. A., & Cross, K. P. (1993). *Classroom assessment techniques: A handbook for college teachers*. San Francisco: Jossey-Bass.
- [6] Apple, D.K, & Krumsieg. K. (1998). *Process education teaching institute handbook*. Corvallis,OR: Pacific Crest Software.
- [7] Linn, R. L. (1995). *Measurement and assessment in teaching* (7th ed.). Englewood Cliffs, NJ:
- [8] McAlpine, M. (2002). *Principles of assessment*. Glasgow: University of Glasgow, Robert
- [9] Clark Center for Technological Education. Available at: [//www.caacentre.ac.uk/dldocs/Blueprint1.pdf](http://www.caacentre.ac.uk/dldocs/Blueprint1.pdf)
- [10] Wiggins, G. P. (1998). *Educative assessment: Designing assessments to inform and improve student performance*. San Francisco: Jossey-Bass.
- [11] Wass, V., Van der Vleuten, J., & Shatzer, R.J. (2001). *Assessment of clinical competence*. The Lancet, 357, 945-949.
- [12] Braun, H. (2010). "Getting Value Out of Value-Added: Report of a Workshop." Washington, D.C.: The National Academies Press.
- [13] Brookhart, S. (2009). "Accountability Policies and Measures." Washington, D.C.: National Education

[14] Goe, L. and Croft, A. (2009). "Research-To-Practice Brief: Methods of Evaluating Teacher Effectiveness." Washington, D.C.: National Comprehensive Center for Teacher Quality.