

Adaptation of a Blended Method for Various Learning Styles to Enhance Competence in the Educational Domain

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Abstract- Learning is a combined factor in education. Individual learning styles differs from each student to student. The very term “learning styles” means, the method of understanding the students learning behavioural pattern. As not all student learns the same way the methods of observing, absorbing the concept, the methods of implementing the read facts and the memory of retaining the learned information differ from individual to individual. Every single student learns in their own perceptive way and not all students learn and understand the same way. Individual learning of concept depends on various factors such as cognitive factor, environmental factor, experimental factor as well as emotional factor and so do the styles also depend upon instructional design, individual behaviour, need to master the concept, e-materials, other digital resources and teaching guidance. Each individual follow a different processes and categorizes information differently based on personal requirements. The ways of social interaction also differs from person to person. In this paper the varied learning styles along with blended methods which, is the combination of both classical and non-classical education programs are well discussed towards competence enhancement benefitting the educational domain.

Keywords: *General styles(GS), Case of repetitive style(RS), Content based style(BS), Real world implementation style(IS)*

I. LEARNING STYLES

The other word given to different learning style is the depth of understanding. Individuals differ in acquiring the knowledge according to their learning styles. Each student learning styles are identified. It is also possible to define an appropriate context of learning. Different learning style depend on individual approach to learn different task. Learning styles also describe the attitude and behavior pertaining to the context[5]. The theory of learning styles change in order to acclimatize to the process of learning according to student[19] preferences, aptitudes and individualizing activities. Styles such as

1. General styles(GS) where the sense of uncertainty about the learning objectives, instructions and a sense of being weighed down by information are applicable
2. Case of repetitive style(RS) where the pass desire is more focused. This is accomplished by repeating the information until they are mastered.
3. Content based style(BS) is based on interest based upon concepts
4. Real world implementation style(IS) is based on implementing the problems in real world situation and deriving the solution.

Students learning style mostly fall in either one of above styles. With blended methods learning styles are discussed to improve better performance[14] among students.

II. LEARNING STYLES IN BLENDED METHOD BASED ON STUDENT CENTERED

Blended learning[4] is an instructional method that leverages many technologies in order to provide a more tailored approach towards learning thereby, giving students control over the time, place, course and speed of individual learning. Many theories have thrown light on different learning styles. Basically the learning style are categorized into four different stages which are

The primer stage which is the exposure stage - As the word explains this stage sets the introduction towards the basic and topic related concept.

The second stage which is the guided stage - This stage deals with problem where, external guidance is required to understand the concept. This stage involves the face-to-face and blended learning methods.

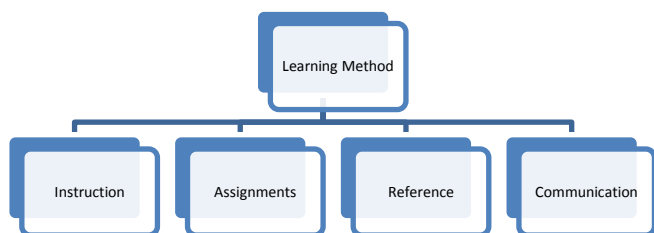
The third stage which is the independent stage- On attaining the concepts through review, feedbacks from the instructor

and with the help of supervisory guidance this stage is attained.

The final stage which is the mastery stage- Based on practical experiments, critical thinking[16] and 1. different problem solving methods the mastery stage reached. 3.

In spite of varied stages the main motive of the student learning remains the same. Individual skillset depends up to the instructor, curriculum, design, schedule and also on content developer to support the student in varied learning stages. In order to become an independent learner and to build on new learning concepts or skills repeated studies are considered necessary as each student learn through varied combination of different styles.

Learning[3] are a pool of information about varied styles and theories. As theory are methodologies which are relatively difficult to relate with one another few learning method along with learning styles are concrete, dynamic, reactive



As the figure shows the varied methods such as Instruction, assignments, reference, communication the different learning styles based on individual needs are listed as

1. Concrete- learners belong to well move ahead planner where many simulative performance of task, reports, self assessment work and other virtual demos, presentations are preferred as well as these learners also be a participant in group work.
2. Dynamic- learners belong to typical traditional class participation type where project related reports model building, virtual field trips meetings are given preferences
3. Reactive classtime – learners use most of the time for complex problem solving and critical thinking techniques. Most of the individual study are web based.
4. Enjoin- Learners mostly prefer small discussion group along with online[6] study material.
5. Global- learners be a part of discussion group where concepts, paradigms, theories, essay questions, online materials [6][7], news paper articles, magazines and books forms a way of mastering the subject.
6. Innate- learners prefer case study, tools with statistical support, comparative assignment and group discussion.

7. Deductive- learners prefer link based topics to solve varied application.

Based upon student centric[15][8] three main categories of interaction are considered. They are

Interaction based on content

Interaction based on instructor

Interaction based on peer

With perfect blended methods the instructor will facilitate each learner-content interaction by providing a balance between perfect packaged presentation of instructional material as well as in interacting with new information to enhance[17] personal knowledge. Instructor support a well respond implementing new concept to enrich individual knowledge. According to personality, individual needs, behaviour each instructor guide, support, and encourage personal involvements of students in various forms of interactions and participation. The last category is the interaction based on peer. This interaction is based on varied communication technologies such as document sharing, conferencing through audio, video, web based apps, forum discussion and other learning methods. Interaction with peers helps in keeping relevant topic discussion on track, relating discussions based on instructional components, providing intuitive comments to aggravate deeper understanding to topic as well as interpretation of the each course content.

With diverse blended process available and with the different learning styles, tailored methods according to individual needs can be framed. As blended methods gives the ability to set up own schedule for studying at own time pace, more and more personalized studying enhances the student's competency level. With well time management skills along with appropriate evaluation technique students suitably enhance competence[18] in higher education.

Blended learning is designed to require students to connect with the content in a variety of ways that suit individual learning style. Blended learning use different strategies to provide better opportunities for students in order to revisit individual learning, along with learned content reflection, critical thinking[16] and time based activities. By using blended method students apply the concept learned rather than remembering the facts. Various tools and with relevant resources blended learning environment take full advantage of clear learning and natural method to become competent in higher studies.

A well balanced team of blended learning environment contain instructors, expertise integrators, designed curriculum and individuals to synchronize, administrator for every student learning needs. This team duty is responsible to identifies learning goals for all students. Using data driven decision, the team identify different and specific learning needs thereby forming a format and a platform to use across

curriculum as well as in all learning area. With customization at different levels and access to different technologies tools are chosen to allow for cross content learning. A well collaboration between different teams aids in structuring different learning[3][13] style along with blended methods thus allowing students to mastery the topic.

Different tools support the needs of each student. The accomplishment of each tool depends upon the teacher's taxonomical design grip as well as visual-from of an information organization where students adapt with varying degrees of success.

III. COMPETENCE ENHANCEMENT FOR LEARNING STYLES USING BLENDED METHOD

Individual learning style[1] also aids in enhancing the competence[18] level in blended method. Individual studying habit also plays a vital role in enhancing competence performance. A well advance plan about learning will help in better performance.

Self-assessment is another method to find a better way to improve performance. Well balanced blended protocol along with instructions aids students in competence world.

Blended learning, needs a ample amount of time and effort to study and to work on varied assignments. These assignments can be taken in the form of online discussion and as online course along with face-to-face instruction. Many theories of learning styles is all over the educational systems. The main say of learning styles theory is that styles[3] differ from one individual to another individual in accordance to individual learning abilities, instructional methods and as well as learning environments. These facts aid each student in their learning enhancement[10].

Digital material also forms a vital part in learning where the contents depends mainly on design, navigation and mode of communication. In supervised learning these digital material along with face-to-face instruction helps in achieving student goal. With instructor instructions and communication, read time, assignments and discussion posts, response time, reports, and also interaction with instructor and other peer groups will enhance the competence level among individual. Competency based on performance[2] under difficult conditions demanding tactical reasoning, discernment, determination, imagination, and craftsmanship. Combination of different skills, attitudes and proclivities along with the list of elements

1. Continue
2. Critical thinking and with clear communication and correctness
3. Gathering data
4. Listening with understanding
5. Creating, imagining, innovating

6. Assessment flexibly
7. Meta-cognition
8. Inquiring and posing problems
9. Thinking interdependently
10. Applying precedent knowledge to new situations
11. Enduring open to uninterrupted learning

Use of blended[5] method along with learning styles allow students to have suitable competencies for the bureau. The revelation to digital environments, platforms and tools support students with skills that are required for better career. Blended learning[11] methods helps students through curriculum and self evaluation further improves performance.

Many novel virtual learning[9][12] and streaming solutions enable students to share a classroom[20] with an instructor. Modernization and entrepreneurship skills helps students through advanced technology thereby making students to become more competence in higher education.

Bringing a wide improvement when developed and combined with blended[10] methods constitute better performance thus leading to competence in higher education.

IV. CONCLUSION

Performance based on varied learning styles based on student centric competence can also be improved. Most of all blended methods and learning styles are based on different teaching styles, learning path, proper guidance, appropriate learning tools, inclusion of new and relevant technologies, evaluation methods and individual performance. Learning styles also depend upon individual study habit. Both theory of learning styles and individual intelligence describe instructors to alter the teaching way. Inorder to enhance individual competence different learning techniques or combination of different learning styles under varied circumstances helps to enhance better outcome.

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