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(57) Abstract:

ABSTRACT In the current pandemic situation, students are supposed to undergo their studies through online as educational institutions are closed in regard to safety. It is necessary for the students to grasp the subjects with clear understanding which is possible by increasing the quality of education which is declining regularly. Main cause for quality decline of education is that students are not able to comprehend and understand the subject. This invention finds a solution for this problem in educational field. The proposed work is based on the three styles of learning considered preferentially for an individual such visual learning, auditory learning and kinesthetic learning named as VAK theory. Hence in this approach, the students are classified based on their interest of learning style. Based on this classification, assignments are allotted to the students group which they are able to understand and comprehend with ease which increases the quality of education. The proposed invention is based on IOT which classifies the students automatically, maintains the performance history, submission of assignments, their interest in co-curricular activities, response speed, style of learning etc. This system monitors student community even when are learning through online thereby reducing the manual work along with enhancement of student performance from 10% to 50% based on the activities of their learning style.

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Abstract:

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Complete Specification

Claims:We Claim:

- 1. Learning ability of the student is considered for allotting assignment based on Internet of Things in order to increase the learning efficiency of students.
- 2. Students are able to enhance their learning experiences such as understanding, learning and correlating the subject in a better way.
- 3. Engineering graduates are able to contribute more to the society as the quality of education is improved by the proposed e-learning technique.
- 4. Tutorial and home assignments are assigned easily by the faculty by the proposed technique based on student's learning style.
- $5. \ \ Software\ training\ can\ be\ provided\ in\ an\ effective\ way.$
- 6. Students are allowed to provide feedback of the learning technique to authenticated people.
- , Description:Description of the system
- · In this invention, students are classified into based on their learning styles based on the finger print biometric unique for each individual.
- Analysis shows that most of the students falls in the category of auditory type while the remaining of the students are divided equally into visual type and kinestheti type of students preferentially.
- Automatic allotment of assignment is adopted in order to assign tutorial and learning materials to the students, in order to increase the student's performance in a substantial way.
- An improvement of 43% is obtained for the group of students under auditory learning style while the improvement of performance obtained for other two groups a 6% to 41% on an average improvement obtained is around 25%

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