Impact of IOT in Education during Covid -19 Pandemic

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ABSTRACT

At the end of 2019 and the beginning of 2020, When the Covid -19 pandemic hit the world It effected in all industries even the education sector. The Biggest challenge is to teach the students online the whole world is answered about this new technique.

Many existing technologies which are available in Information and Technology world are used for teaching methodology like Google meet, AWW board, Google forms for Exam and so on. But it's not giving the feel and effect of teaching satisfaction. So the IOT comes in Picture were we can use Robotics and other technologies of IOT for teaching. The plan was ready but the road map is not set so the First action was to examine the equipments which are available to do the all education system online. There are issues with computer systems so alternative option we have to find application searching is started so we get on conclusion we are having smart phones and there are online tool available so we can use them for this procedure. Many ICT tools are there on mobile also so we are started with it and finally we are tried to match the expectation of offline education to Online Education.

In this paper we are trying to match and explain the impact of IOT tool and there utilization in education sector with some example.

Keywords: Teaching Methodology, Education, IOT, ICT, Robotics, Mobile, Institutional transformation.

1. INTRODUCTION

The transformation of education takes placed in the year 2020 and 2021 after a long time the world is introduced with online education system were students are the but there is no class no black board and no infrastructure needed for teaching student. The drastic change is feel in this sector the Ministry of education is already in progressive with is concern so the world can learn new things without be present physical at foreign institutions for that purpose the Ministry has carried out initiatives and programmers in line with the Malaysia Education Blueprint 2015-2025 to ensure that higher institutions develop future-proof talents that would meet the demands of industry. This includes a bendy and natural curriculum that the Ministry has implemented as a step in making sure that our students can access records anywhere they're and on every occasion they want, without being too restricted to the classroom environment as afore. The inculcation system in

Malaysia indubitably developed and transformed in line with the ordinate dictations of the current market. There's, but, a battle among the generation and society as a whole at some degree. The pattern of ascending 'e' such as e-library, e-learning, e-health care, e-participation, e-civil society, etc. as a whole at some stage. The pattern of ascending 'e' such as e-library, e-learning, e-health care, e-participation, e-civil society, etc. is appealing to adopt. But would each organization be converted into an e-organization, contributing to the transition from a community to a information society (ksociety)? However, we optically discern that many have this posit that 'e' accumulation will reflect 'k' which points this transformation in the erroneous direction. However, increment in public users recently shows that IOT has become more proximate to public authenticity. Connectivity Models: IoT used various models of technological communication which highlighted simple and easy to interact between devices that increased its value among users Transformational Potential: If transformation towards IOT becomes reality, people will have change in thinking that is changing them from physical contact to passive engagement through IoT platform. That is how we can see now in current Covid19 pandemic situation, where people stay connected around the world through the use of this IoT technology this paper highlighted two objectives First, to explore the IOT Tools in higher institutional education. Second, to develop new conceptual framework which focus on Internet of Things to be embedded in the online education system and develop a proper platform for E-Learning

1. 1 Internet of Things (IoT) :-
The Internet of Things is an emerging technological, social, and economic subject. Client products, household items, motors and trucks, production and service gadget, sensors, and different regular objects integrate with net connectivity and effective statistics analytics technology that try and enhance the way we paintings, live, and play.

The internet of things incorporates a huge set of ideas from one-of-a-kind views which are complicated and intertwined.

Key concepts which serve as a basis for exploring IOT's possibilities and demanding situations encompass: The Internet of Things incorporates a wide set of ideas from different perspectives that are complex and intertwined.

2 Key concepts :
which serve as a basis for exploring Iota's opportunities and challenges include:

2. 1 IoT Definitions:
IOT is typically refers to the Internet connectivity and computing power to devices that allows these devices to create, share and consume data without need to depend on human skills. IOT means software is connected to your Hardware and run your project. .

2.2 Enabling Technologies:
there has been the thought of combining computers, sensors, and internet to track and manage devices without human interaction or human need since many years back. This is a large are till time also to do research so if we use this in education during pandemic situation.

3. Applications Of IOT:

3. 1 Smartboard:
The times have changed. The contemporary day students enjoy clever forums way greater than black boards. smart boards are interactive white forums that tasks concern pictures. It enables the lecturers and students to have interaction with it. How? By truly writing on it or moving it around the elegance.

It is lots greater amusing and interesting than it's far seems in the intervening time.

It is no unusual to think whether or not clever forums have the capability to update black boards in all manner or no longer. The solution is 'sure'. Phrases and illustrated figures on a black board or text books, fall short at instances to specific the concept of a lesson in minute methods.

Notion clashes come to be commonplace and for this reason the lecture room finally ends up in a pool of bewilderment.

Here, programs of IoT in schooling have managed to make schooling and the trade of information easy, exciting and interactive.

With smart boards, a trainer can take a sign of remedy. Data pics, educational videos and complex formulae,are it for any challenge and especially of mathematics might be solved in shorter time frames.

3. 2 Google Attendance: Many training institutes have exceptional set of guidelines. Some agree with that a sure percentage of student attendance is mandatory for permitting them to take the examination. With IoT, the management can pull out correct records of attendance. That data remains free from human error. If we are using Google meet for online class there is an extension from Google attendance in Google to down load attendance in excel format.

3. 3 Attention to Attendance: One of the other ways to take attendances is using IOT. Safety and high-quality of existence thru real time area of hostel living students could also be traced. For the management, it gets frustrating to calculate the attendance at instances. With IoT primarily based attendance device, calculating scholar attendanceand generating regularity, punctuality and persona reviews turns into handy. the amount of time it saves will have a outstanding effect on employee satisfaction operating for the institute. moreover, that allows you to make students more ordinary to the training, IoT in training made certain to digitally register the scholar's attendance. If the pupil is missing anyhow from the institute, a brief electronic message will visit the dad and mom. That is pretty a laudable measure of protection that has been taken.

3. 4 Mobile Applications and Tablets: There must be a limit to the gadget usage of the millennial students. However, regrettably, the lives of these contemporary pupil's seem to revolve round smartphones, pill and different display orientated electronics. IoT specialists have splendidly shifted this extra attention on gadgets for gaming and social networking to instructional themes. Now, connecting to individuals across the globe having comparable goals and pastimes is now convenient. The sensors of the net of things in training accumulate data and automatically suggest instructional subjects of interest to the students sitting on the opposite facet of the display screen. Smartphone's and pill usage has been made useful for the scholar's grade nearly overnight.

CONCLUSION

IOT is mostly used in education purpose which very useful for students attendance and smartboard whch is very easy to understand that is interactive with students

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