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REDEFINING TEACHERS DISPOSITIONS IN FUTURISTIC UNIVERSITIES TO ACHIEVE SUSTAINABLE EDUCATIONAL GOALS

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ABSTRACT

New perspective of learning have not evolved suddenly but with the outbreak of of covid-19, it has gained the attention of entire educational community. Now, Student centered approach of learning getting much attention than ever. As new technological advancement and industry demand requires fresh workforce with necessary skills which are not fulfilled with our traditional universities. Collaborative efforts among society and teaching community is a need of hour. Concept of ecological university has been also been explained which force on creation of a cooperative and accountable society for making use of resources available in society. This article provide a detailed description of the current learning paradigm and give useful suggestions to teachers, society and also government ,which if taken out in a serious manner will surely help to mold future generations in a better way and to create a better world

INTRODUCTION

Teachers play an important role in building society and the nation. They also help in overall development behaviour and personality of a student. We have seen in the past that the relationship between the students and a teacher was more than that of a parent and child. Since ancient time teachers as Guru played an important role in the development of an entire empire but in current scenario the challenges are different. Different emerging new technologies,

software and platform have came into picture such as AR, VR, AI, cloud computing (Stone 2019), youtube, Google etc. which have put a challenging scenario in front of the current generation teachers. The teachers of the current generation not only has to be an expert of a particular subject but also has to cope up with current technology and tools. It is the need of the hour that the teacher should take the fast moving and developing technology as an open challenge and should be updated and at par with the current technology. Ecological University, seamless switching, glocal teachers, immersive learning (Thompson 2021), scenario based learning (SBL) (Kindley 2021), relationship of morality and technology (Fachin 2021), convergence of distance,formal and informal education, Life skills (Singh 2021), vocationalisation of education (Prakash 2020), tying of educational institutions with industries and research labs (Goyal 2020), synchronous and asynchronous mode of education (Wintemute 2021), continuous and comprehensive evaluation (Physics catalyst 2021),e-content for educational purposes (Mishra (2017), collaborative studies in higher education (Portar 2019) are concepts which emerged this time rapidly and will certainly be major factors in deciding the role of teachers in future universities.

2. Ancient teaching scenario-

Teacher works as a preacher. He preaches and students just follow his words.

He was a knowledge giver and Student was knowledge taker. At that time the role of Teacher was as information provider.

3. Current teaching Scenario-

Students are now encountering so many challenges in the form of new technologies, new courses, economic problems ,social pressure, and students wants to get regular degree but don't have time to attend classes .There are many reasons behind the scenes like preparation of competitive exams, part time job for earning, long distance from educational institutions, family pressure. Technical advancement in education brought new hope for the students. Students can learn wherever they are, whenever they wish, whatever they want. Flexible learning approach is entered in the educational picture. Multiple entry exit, relaxation in age bar, flexible subject combination, new methods of assessment etc. given students great opportunity to learn at their wish.

4 Challenges faced by current generation teachers-

Over the last two decades with technical advancement role of teachers also changed.

Knowledge expands exponentially and because of the internet facilities different ways of gaining different kind of knowledge are available. Students are enjoying the freedom of learning at the same time such freedom poses different problems in front of teachers which are as follows:

- **Flood of learning materials:**

As students already have the material so they do not take interest in regular classes.

So many teachers still not having the necessary skills to cope up with this changing paradigm

- **Ignorance of information technology:**

Lack of IT awareness of teachers, lack of it infrastructure net connectivity, data storage, maintenance of online offline records, lack of time to prepare online content

- **Lack of high-tech software and gadgets-**

Google classroom, kahoot, Dream box, board builder, texthelp, zoom, microsoft teams etc. are very useful in teaching but lack of high tech resources limits the functionality of system.

- **Degradation of moral values:**

Capitalism has shifted the youth towards instant pleasure without having a sense of moral ground. Present generation becomes

money minded which will certainly create threat to mankind in future.

- **Online gaming:**

Youths become addicted to online gaming which can spoil their future. China has taken steps to limit the habit of online gaming by applying few regulations.

- **Indirect assessment**

-not direct contact among teacher and student, suffer the internal and external assessment.

- **Lack of promotion to innovative ideas:**

Even the teachers are teaching in dual mode both offline and online but still there is a lack of promotion of innovative ideas from the administrators.

- **Overburden with clerical work:**

Teachers are engaged in too much non academic work which deviates them to think critically and to implement new ideas.

- **Lack of research promotion:**

Research works are still not in reach of all teachers especially in rural areas. Bureaucratic rules kill so many innovative minds.

- **Harmful effect of using IT tools:**

Technology can build future on the same way it can destroy future too. Students are now having internet connectivity on their mobiles, tabs, laptops but how many of them

really utilising the facility for study purpose ? Most of the students are engaged in watching videos over youtube, facebook etc. Online gaming business is at a new hike these days. Students are spending their precious time in online gaming. Several attractive offers have been provided by the game makers to their customers. Such practices are destroying the future. Keeping this in mind China, having worlds largest population country ,now set limit for gaming .As per BBC news ,China cut down the time for online gaming to 1 hour on Friday, weekends and holidays for those who are under 18. [1]

- **Divergence in formal ,informal distance education institutes and industry:**

At present different modes of education like formal, informal, distance education are working as independent body. Transparency among these institutions are not visible. Students having the same degree from different modes get different treatment outside. Also there is negligible contact with industry which results in flood of degree holders without having necessary skills.

- **Flooded non vocational courses:**

So many vocational courses have been mushroomed these days which do not prepare students for the jobs.

- **Mismatch of demand and supply**

On the one hand industries are lacking a skilled workforce on the other hand thousands of degree holders are unemployed. This is a situation which needs to be analysed at a large level.

5. Recommendations for teachers of future university

- **Balanced approach of technology and moral values in teaching:**

Future demands have a balanced and harmonic approach for technology and moral values as without moral values our generation will go on a dark path which will certainly destroy the future. There is a need to change the focus of students from monetary efficiency to morality. Teachers have pivotal role in helping students to have morality in their work artificial intelligence (AI) poses new challenges in front of teachers which need to be handle properly to make a better world [2].

- **Synchronous, asynchronous mode of teaching and learning:**

As per available time, hybrid mode of learning should be promoted so that the student of different interest , different backgrounds, different learning style, different time zones can read wherever they are, whenever they want and whatever they want. Future teachers must be proficient in

web and video conferencing technologies to cater the need of synchronous class and forums and message boards, discussion board to manage proper communication with the students. They must be ready to prepare video / audio files, lecture notes and quizzes and make these stuff available for learners. [3]

● **Continuous and comprehensive evaluation of students performance:**

Year end examinations are no more effective , to evaluate students' performance in different domains (cognitive, affective, psychomotor). Now continuous and comprehensive evaluation through formative and summative test, should be done in an effective manner. So That students difficulties can be diagnosed at the right time, remedial teaching can be done properly and dropout rate can be reduced. This could also be helpful in times of natural calamities and pandemic and can save the academic years. [4]

● **Positive approach towards sustainable development:**

Future Teachers need to be aware of the sustainable development concept to make a better world and to enable future generations to meet their own needs. Brundtland Report titled, "Our Common Future." talks about 17

global goals that are interlinked to each other and also about the 'need and limitations'. In future, Role of teachers will not be limited to the university students but they will be responsible for developing a sustainable and peaceful society also. [5]

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- **Storage to university teachers :**

Limited data storage restricts teachers to perform efficiently so teachers should be provided with free data storage facilities to maintain the records of students and to guide them in a better manner. It will help teachers in developing a enriched virtual environment. Teachers of future university must be familiar with VPN protocols for ensuring data security and should utilised the cloud computing as it donot pose much hardware requirements. [8]

- **Collaboration among university teachers for sharing their work:**

With the rapidly changing technology it is becoming essential that teachers work in collaboration to grow together and to facilitate students .Collective efforts towards facing the problem and drawing out solutions will certainly benefit the learners specially of rural and remote community. In such a manner teaching will overcome the contraints posed by culture and structure. [9]

- **Sharing of online, offline video lectures among College:**

There are institutions which are lacking subject experts such institutes can take advantage of recorded videos of experts in offline mode or in online mode. David Brecht reported that supplemental online learning materials can enhance the quality of learning and also the failure rate. [10]

- **Inculcation of moral values:**

Vedas and Upanishads emphasize the necessity of value education. Teachers of future university will serve as a role model for inculcation of values in learners. They will have the responsibility to make learners accountable for their deeds. For this Moral values should be inculcated with regular courses through activities like role play, essay writing, slogan, short film making. [11]

- **Flexible evaluation:**

Evaluation should be flexible assessment, timelines, weighting, and formats in the future. Teachers should provide opportunities to students to appear in exams as per their wish. Such a beauty of learning will appear when students will select their own learning style and time of exam as soon as they finish their syllabus. [12]

- **Emphasis on Research and innovation:**

To deliver students updated knowledge newer and innovative ideas should be used. Thus there is a need for research and innovation for university teachers. National

Education Policy (NEP) 2020, emphasizes the research and innovation through organization of hackathons, proper coordination among research labs, industry and education institutes. [13] Teachers of future university must actively participate in research and innovation.

- **Organization of guest lectures:**

Renowned experts in the field should be invited for lectures to create awareness and in depth understanding of real life problems and to take advantage of resources available in the community. Teachers of future university can enjoy advantage of guest lectures by recruiting appropriate guest for delivering content in which he/she are not that much efficient. [14]

- **Providing Immersive learning experience**

:Teachers of future universities have to take the responsibility to provide an immersive learning experience to the student to make them ready to face the real world. As per an article by Sophie Thompson (2021) Augmented reality AR, virtual reality VR mixed reality MR can be used in simulating real life situations to provide learners immersive experiences.[15]

- **Whatever, whenever and wherever learning:**

Teachers of future universities should provide students opportunities to learn whatever they want, whenever they want and whatever they want. Teachers have to prepare themselves for such a challenging situation. [16, 17]

- **Relaxation from non academic works:**

Teachers should be made free from non-academic activities so that they can focus on teaching and learning activities. [18, 19]

- **Autonomy to prepare and deliver the lecture:**

Sehrawat in her work reported that teachers should be given autonomy so that they can give their best in delivering and preparing lectures in an innovative manner as already mentioned in national curriculum framework 2005 NCF (2005). [20]

- **Restrictions or set limitations for online gaming:**

Online gaming is destroying the youth. To reduce the harassing effect of online gaming on youth it is necessary to impose restrictions. [1]

- **Promotion to Ecological university:**

Ecological university is a new concept which is deeply associated with society and takes advantage of the resources of society.[35]

- **Making knowledge resources freely available**

Students coming from different financial backgrounds are not capable of paying for costly knowledge resources so there should be some provisions for making knowledge sources freely available for the community. Open access database should be developed for proper dissemination of knowledge. [22]

- **Seamless Switching** :

Campus learning, blended learning and wholly online learning should work simultaneously to enhance learning outcome and switching among different modes should be allowed to students and faculty. [23]

- **Inculcation of new skills in degree courses-**

Students have their own fears and insecurities. To help students in overcoming their fears and insecurities, University grants commission (UGC) planned for lifeskills programme for students in which teachers will play the role of facilitator, mentor and trainer . it will help students to develop emotional and intellectual competencies .Few institutions in higher education is offering such programs but stress on students demands that such programs should start at ground level also so that students can handle their problems effectively. [24]

- **Tie up with industry-**

Industry and teaching institute tie up for giving real life work experience to student. To resolve the problem of mismatch between demand of industry of skilled workforce to the degree holder supplied by universities, it becomes essential that there should be a tie up between industries and higher education institutions. So there is a need to craft the curriculum according to the needs of the industries and market. Teachers need to be prepared for taking initiatives in this directions. [25]

- **Vocationalisation of education-**

Education sector can no longer work in isolation. There is an impulsive need for skilled youth so vocationalisation of education is the need of the hour.NEP-2020 has provisions for vocational courses in India. [26]

- **Convergence of different modes of education and tie up with industry**:

Different type of educational institutions like formal and informal, distance education can no longer work in isolation. Now the urge is to make transparency among different educational institutions which can be possible with convergence of education. [27]

- **Virtual field trip**

-Teacher can customize virtual field trip to provide student guided exploration by assigning different veiled to student .Such trip can be well integrated in curriculum to achieve educational goals. [28]

- **Scenario based learning (SBL)**

Teachers of future universities can give students an authentic learning experience through scenario based learning (SBL) ,as it allows students to solve complex tasks through critical thinking and learning takes place effectively as it is take place in the context where it is going to be used. [29]

- **Awareness about cyber bullying** :

With the raise of online learning complaints regarding Posting hurtful comments, pictures and spreading rumors are common from learner's community. So many news are coming about suicide or violent activities as a result of online activities. Teachers of future university must take step to secure learners by recognising their signs and involving their parents in discussion about cyber bullying as because of it they can not focus on their study and their personal growth affected by it. [30]

- **Awareness of individual differences of learners**

To design teaching learning activities teachers of future university must be familiar with individual differences of age, gender, intelligence, perception etc.so that the learners can learn with their own learning speed and interest. [31]

- **Awareness of learners of special need:**

Teachers of future university must be dedicated towards providing
resources and assistance to the students of learning disabilities. They must get training in providing assistive technology(Speech-to-text technology, Digital Recorders etc.)
to the learners with special needs. [32]

- **Awareness of national, international and global issues**

World has become global village now, it become necessary to make students aware of different cultures, religions and their civic duties and rights. Teachers of future universities must have global awareness as they have to guide students to make the world peaceful. As the world has become smaller due to advancement of global communications, they must teach students the implications of different social, economic, political, and geographical issues. They must direct learners to overcome cross-cultural barriers and have respect and empathy for different culture .For this teachers may guide students to learn different foreign languages and to read literature concerned with different cultures.

Teachers must develop their skills in the same to guide learners in a proper way. [33]

- **Be a Glocal teacher:**

Future university demands that teachers should be glocal that means they must use global and local perspectives in appropriate ratio. Such teachers will work according to local conditions and worldwide conditions at the same time. They will develop local, national and international partnership to enhance the quality of learning. [34]

- **Educational Recovery Programme**

Teachers of future university need to organize educational recovery programme for students who are not able to keep the pace in learning. Such programme should be organize with proper coordination of other stakeholders. All need to decide preparations and precautions for learners to make them safe in the wake of corona pandemic. [35]

6. Role of government to uplift the teacher as per new challenges

Government may inspire teachers to use appropriate teaching approach and to prepare e-content in four quadrant model so that they can reach the students in remote places too and can provide the education to untouched part of community also. It can help in overcome the barrier of distance, gender, income, time. So the time to move towards a global teacher who works for the whole mankind not limited to a place. By signing MOU among universities, industries and research institutes, students can get benefits of top institutes of their field. Government should take initiative regarding online gaming of youth under 18 by setting up regulatory bodies to set time limit for teenagers and at the same time making online gaming companies accountable for future of country and forcing them to check the time limit for teenagers government should organise Training both through online and offline mode. Asynchronous mode of training is more effective in training of large communities with less resources so hybrid mode of training demand is demand of time.

7. CONCLUSIONS

In Future, Teachers have to learn the critical assessment of digital learning tools, to prepare students to face the upcoming challenges. They should be proficient enough in advance technology, new methods of teaching, making best use of resources available and employing IT tools efficiently. He /she should be well aware of the new advances in an around on their environment. He/ she must be updated regarding advancement in the subject and should have a problem solving approach. The future teachers must also teach the

moral behaviour and ethics to their students, the same should be the part of each and every curriculum as in the current advanced technology scenario moral values also be taken care of .Critical thinking, section making problem solving skills will be must for teaching the community to cope up with a changing environment. Virtual universities will play an important role and online degrees will be in trend. Students will show three preferences for learning in terms of time, place and course. Above discussion it is crystal clear that future is coming with new challenges and opportunities and to take the advantages of technology role of teachers is so crucial. But the definition of teacher need to be revive. All those who are the stakeholders in teaching learning have to play the role of teacher with all their expertise in favour of students enrichment .So there is a need of collaborative effort of community and teacher learner to face the future challenges in use of teachers students and unover is must in this regard. Technology, itself can not be a teacher but it can be the assistant of the teacher .So teachers should expand and maintain their knowledge of learning technologies.

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