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ON

IMPACT OF ONLINE EDUCATION IN BANGALORE

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INTRODUCTION:

Education is the most important thing for any country to develop and prosper. Education moulds the character and intelligence of individuals. It also provides the talent and motivation to every person. The conventional education system at higher education level is analogous to a brick and mortar type business system, where a student gets systematic education from college/University by personally attending regular classes. However, the conventional education system has many drawbacks and a lot of improvements are expected in future days. One of the possible developments in the next generation education system is online education.

Online education has seen rapid progress in recent years, making it one of the most discussed subjects in the education domain. It has taken away some of the major limitations of the classroom based education, like location, accessibility, transportation and cost. The developments in the education system using technology and pedagogy made the training system more effective and presently students are enjoying the experimental and choice based education systems at all primary, secondary and higher education levels. Using the model of self-learning with the aid of audio and video information is becoming more popular and easily adoptable among the children . For example, Children learn video gaming very quickly and focus on it hours together without need of intensive training. Even though school system is essential at primary and secondary level for peer group interactive learning, the higher education can be provided various online and distance education mode through TV channels, online education portals so that the young generation should be encouraged to work while doing higher studies. This kind of earn while learn models will support students financially so that they need not wait to get financial support and hence dependent on their parents or the government.

Online education has gained immense popularity among working professionals and students pursuing higher education. These categories of online learners find immense benefit in the autonomy and flexibility that these courses offer. Online courses can be planned around their

schedule which may include full-time employment, internships and caring for family. Online learning can also help them take out some quiet time to study. Distance learning has been around for a long time, even before technology made it extremely accessible. Traditional schooling is now seeing an increased proliferation of virtual training materials and online courses. Even in a world of tried and tested schooling systems and curricula, the most successful schools are the ones who adapt to the changing times, as well as to the expectations of students, parents and the society. Online courses call for a greater amount of motivation and self-discipline than a classroom-based course. A classroom has one or more instructors and peers, who can hold a student accountable for their course-work. In contrast, online courses involve setting our own goals, tracking progress and meeting deadlines. One does not learn effectively in isolation so online courses do offer discussion forums, email and one-on-one support. Technology also adds on to the visual experience by incorporating animations that can be used interactively for effective learning and communication. Also, online learning overlaps with the broader category of distance learning, which encompasses earlier technologies such as correspondence courses, educational television and videoconferencing. The relative efficacy of online and face-to-face instruction needs to be revisited, however, in light of today's online learning applications, which can take advantage of a wide range of Web resources, including not only multimedia but also Web-based applications and new collaboration technologies. These forms of online learning are from the televised broadcasts and videoconferencing that characterized earlier generations of distance education. Moreover, interest in hybrid approaches that blend in-class and online activities is increasing. Policy-makers and practitioners want to know about the effectiveness of Internet based, interactive online learning approaches and need information about the conditions under which online learning is effective.

In this paper, we have discussed the online education system as the next generation education system and the impact of the online education system in Bangalore. The advantages, benefits, constraints and disadvantages of online education systems are discussed.

On-Line Education Models:

There are many number of models developed on how to deliver education effectively using many tested pedagogy. All of these models may not end up thriving in the long-term, but the following models have potential for attracting the learners. These models are differing in terms of course design, pedagogy and the channel by which information is created and transmitted:

- Traditional full time classroom based face-to-face programs
- Traditional part-time classroom based programs Non-Profit Online
- Programs Profit-based Online
- Programs Online
- Competency-Based Education
- Model Open Education Practices
- Massively Open Online Courses, or MOOCs Flipped Classrooms
- Self-learning complete online competency through Mobile Devices.

Importance of Online Education System:

The benefit from the students' point of view is accessing education services anywhere, any time and any extent of time. These features significantly save the valuable time of the student. The main advantages of online mobile education for the students are listed as follows:

- **Ubiquity**: Through mobile devices, education applications are able to reach students anywhere at any time. On the other hand, students can get any course they are interested in, whenever they want regardless of where they are, through

Internet-enabled mobile devices. In this sense, mobile education makes a service or an application available wherever and whenever such a need arises. Communication can take place independent of the students and universities location. The advantages presented from the omnipresence of information and continual access to university courses will be exceptionally important to time-critical applications. Ubiquity is the most supporting feature of competency based learning systems.

- **Personalization:** Huge number of education courses, services, and applications are currently available on the Internet and the relevance of information received by users is of great importance. Since owners of mobile devices often require different sets of applications and services, mobile education applications can be personalized to represent information or provide services in ways appropriate to the specific students. Additionally, personalized courses/content is paramount in operating mobile devices because of the limitation of the user interface.

- **Reduced Costs:** This is due to availing and using various courses and services by number of students online. The course fee charged by service providers/universities is much cheaper than fees of conventional education systems. The heavy competition and the price war between mobile service providers also reduced mobile service usage cost. So, online based CBCS model allows students to qualify in prescribed subjects by taking assessments from service providers through online, which decreases the cost of availing degrees based on online based evaluation procedure.

- **Flexibility:** Because mobile devices are inherently portable, students may be engaged in activities, such as working or travelling, while doing their study through their internet-enabled mobile devices. The skills and experience they learned can be used for online assessment to get relevant degrees.

- **Increased Comfort:** Many students secretly hate the conventional education system because of punitive fees, inconvenient working hours and unhelpful university staff. In the online mobile education system, due to quick and continuous access of interested and required courses from any global university, the service is available 24 hours a day, without requiring any physical interaction with the instructors. So, online CBCS model has the advantage of independent student centric learning and earning of degree online without physically attending classes.

- **Time Saving:** The main benefit from the online mobile education system for student's point of view is significant saving of time by the automation of education services including access to study materials, video lectures, online assignment submission, online interaction/discussion with both instructors and peer students, online exam and evaluation etc. Since the response of the medium is very fast, the students can get their result soon after the examination.

- **Convenience:** The ability and accessibility provided in wireless devices will further allow online mobile education system to differentiate its abilities from conventional education systems. People who want to study any course in any university will no longer be constrained by time or place. Rather, it could be accessed in a manner which may eliminate some of the labor of life's activities. For example, students waiting in line or stuck in traffic will be able to access course materials/take an exam through online mobile education applications. Students may recognize a special comfort which could translate into an improved quality of life. Similarly, online CBCS model is most convenient to get a college degree for working class people.

Online Competency-Based Education Model:

Competency-Based Credit System (CBCS) is a significant improvement in the education model by designing a new evaluation system. It provides an opportunity to personalize the learning for students by means of providing a proper direction while choosing the subjects, and its assessment. Competency-based programs allow students to demonstrate academic competence through a combination of assessment and documentation of experience to gain academic credit. It allows students to progress at their own pace, incorporates the process of prior learning assessment, to offer a logical framework for improving knowledge, skills and experience as per the demands of the industry to the extent decided by the institution. Competency-based Credit System (CBCS) works backwards within a course, starting with the desired outcomes through learning objectives and relevant assessments, and then moving to the learning experiences that should lead students to the outcomes. Typically there is a desire to include flexible pathways for the student to achieve the outcomes. CBCS can be implemented in various modalities, including face-to-face classroom, online education and hybrid models. In CBCS the outcomes are more closely tied to job skills or employment needs, and the methods are typically self-paced. Some of the critical components of CBCS are as follows:

● Explicit learning outcomes with respect to the required skills and concomitant proficiency.
● A flexible time frame to master these skills.
● A variety of instructional activities to facilitate learning.
● Criterion-referenced testing of the required outcomes.
● Certification based on demonstrated learning outcomes.
● Adaptable programmes to ensure optimum learner guidance.

How is online learning changing education?

- 'Live and interactive' digital learning empowers the learners to receive par excellence, quality education anytime and anywhere. Whether it is career and technical education or project-based learning, it gives learners a more interactive platform for learning and assessment

- Free online courses open up avenues for both education providers and students. People are more confident to take these courses and when they see results, they do not hesitate to pay for more

- Online education gives students an opportunity to plan their future course of action and fast track their careers

- Through live and interactive digital learning, edutech firms are imparting comprehensive and specialised knowledge which will enable children and adults to learn with a purpose and instil a sense of belief in them

- Such offerings are changing the way India learns by giving students an edge in learning, along with an opportunity to progress in their career.

Online education increases the applicability power:

The impact of new technologies in educational contexts has been mostly positive as new technologies have given educators the opportunity to enhance their knowledge, skills, and therefore, enhance the standard of education through constructivist learning environment with digital storytelling

- Audio visual aids, interactive, educational simulations help understand concepts and theories enabling better learning

- The students gain knowledge from masters of the subjects from world class institutes which is something they have always desired

- They also benefit by learning from eminent corporate leaders, business academicians as well as the industry connoisseurs. These experts share their valuable insights on the relevant, practical and must know aspects of the corporate world, enabling the students to gain comprehensive and specialised knowledge

ABCD Analysis of Online Education System:

The simple ABCD analysis model consists of listing advantages, benefits, constraints and disadvantages of the system.

Advantages:

- Convenience Choice based subjects.
- No wastage of time Global quality.
- Accessibility to global technology & education models.
- Flexibility in time & learning.
- Students from all over the world to service providers.
- Acclaimed professors can reach global students.
- New courses, new pedagogy can be used to attract global students.
- Quality and brand based sustainability.

Benefits:

- Technology based innovations in examination system.
- Earn while learn benefit Low fee opportunity.
- High quality education at affordable or low cost.
- Learning courses are available anytime, anywhere.
- International quality and international acceptability of certificates.
- Better earning opportunity for service providers.
- Better branding opportunity for service providers.
- By reaching global students, Professors can develop personal brand.
- New courses, new pedagogy can be popularized globally.

Constraints:

- Designing online courses in different subjects.
- Identifying futuristic areas.
- Finding and retaining suitable faculty
- Innovative examination and evaluation model
- Checking the accreditation and quality of the programmes
- No human direct interaction unlike conventional classroom programmes
- Courses which need practicals are difficult even if run through simulations.
- Students may feel loneliness and the sense of isolation if they are not working.

Disadvantages:

- Lack of credibility of online courses.
- Low acceptability from industries while offering jobs.
- More hard work due to intensive assignments and pressure to maintain deadlines.
- Students have to be responsible for their own learning
- Global competition in a given subject for the students.
- Personality development is not possible due to no direct interaction with classmates.
- Less creativity and innovating ability due to less interaction with teachers/instructors.
- High initial investment for service providers.

Ideal Education System:

Education at its best will effectively prepare students for the working world. An ideal education system would not only prepare students for the working world but would also prepare them to become empowered to transform the working world to better suit the needs of the people. An Ideal education system shall have characteristics which can be predicted and classified. Based on various factors which decides the ideal education system characteristics, a model consisting of the input conditions, output conditions, system requirements, and social & environmental conditions.

- The Ideal Education provides education to the entire world rather than a single neighbour-hood /Country and hence it has an unlimited global reachability.
- The Ideal Education offers courses of study, which enjoys an inelastic demand in the world market. (Inelastic refers to a Course that people need or desire almost at any price.)
- The Ideal Education provides all types of courses in all fields of specialization and imparts knowledge, skills and experience to all people irrespective of their age, gender, previous qualification and country of origin.
- The Ideal Education system provides high quality education to everybody irrespective of their economic, social, linguistic and cultural background.
- The Ideal Education system operates on a low overhead. It does not need an expensive location, big campus and huge amount of infrastructure. Only a few Universities are required to provide quality education to the entire world.

- The Ideal Education system does not require major investments in equipment's and other education & training systems or repetition of large number of universities in every state and every country. In other words, it does not require huge capital.

- The Ideal Education system is relatively free of all kinds of government regulations or restrictions.

- The Ideal Education system is portable or easily moveable. This means a student registered for a course should get the service wherever he moves and satisfies its students intellectual needs. There are no constraints like compulsory subjects, minimum and maximum subjects.

- The Ideal Education system leaves enough free time to instructors as well as students. In other words, it doesn't require attention/study of 12, 16, or 18 hours a day. In the Ideal Education system, one can train 10,000 students as easily as can have one."

- The ideal Education system students can take exams any time, any number of times and results should be declared immediately. There is nothing like losing a year due to failure in examination.

- The ideal Education system will provide services to its registered students anywhere, any time and any amount of time. i.e., it is ubiquitous.

- In ideal system, the technology is used in such a way that all pedagogies of education system should be delivered effectively.

- An ideal education system provides all students with not only basic knowledge but also social skills and good behaviours.

- In ideal Education system, the demand for variety of courses is higher than supply and the efficiency of the system is always 100%. and students have a choice on alternative in terms of course/service providers.

- The ideal Education system will be sustainable for long time.
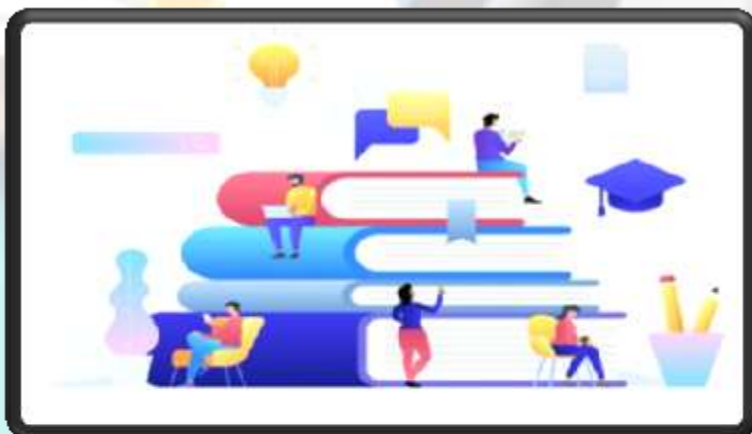
Any education system which has the above properties is considered as ideal education system and the conventional education systems called brick and mortar systems have serious drawbacks/limitations in terms of the above properties

# Study on the Impact of Online Education in Bangalore

Online education platforms can help students become more independent learners, before they make their ways into college and schools. So believe that we must not hold back students from pursuing on-line education but instead provide them guidance as they navigate through it. These programmes can help them develop new skills and capabilities in the students with the help of technology and interdisciplinary approaches.

Analysis on the impact of online education has gained immense popularity among students. It also involve in setting their own goals, tracking progress and meeting deadlines. Programmes will also open up opportunity for students from the weaker socio-economic communities who have limited access to learning resources.

Analysis:

Comfortable in spending several hours for online education:

72.7% are comfortable in spending several hours for online education, whereas 27.3% are not comfortable and spending several hours for online education due to lack of concentration, network and technical issues and Health problems such as stress, eyes strain, back pain etc.
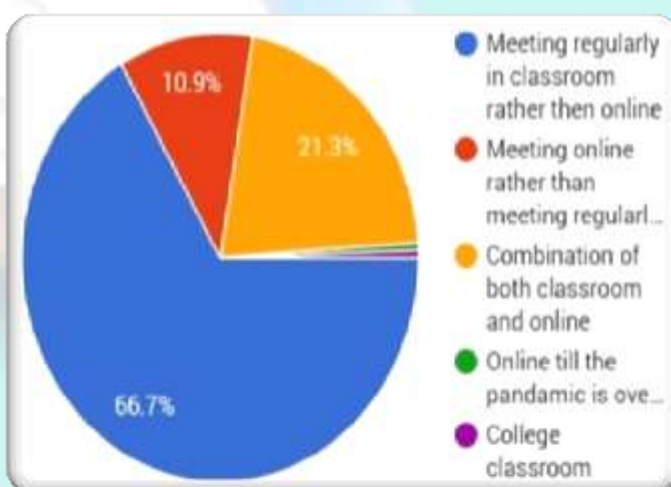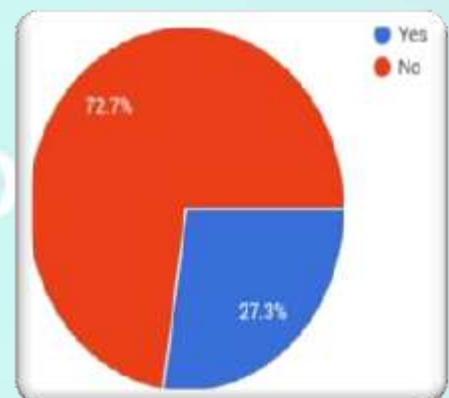
Class format which students prefer:

66.7% prefer meeting regularly in classroom rather than online, 21.3% prefer combination of both classroom and online, 10.9% perform meeting online rather than meeting regularly.

Able to easily access to internet for your regular online classes:

7.7 % of the respondents strongly agree that they are easily able to access to internet for regular online classes. 25.1% of the respondents agree, 42.6 % say neutral, 31.7% disagree and 10.9% strongly disagree.
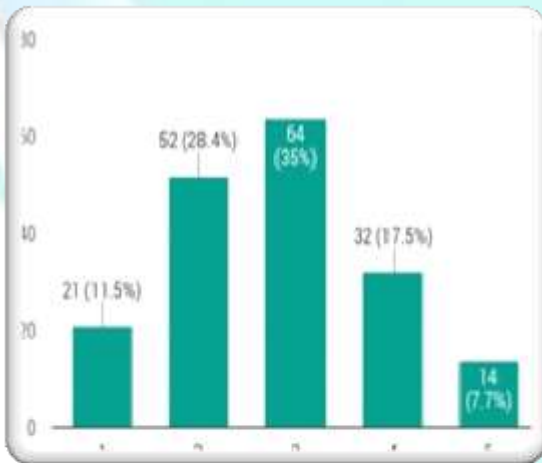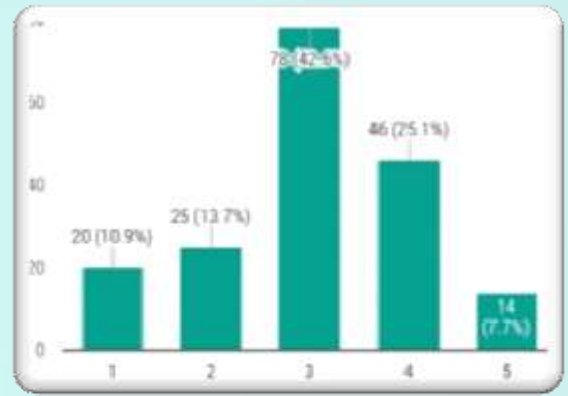

Able to manage study time effectively and easily to complete assignments online:

7.7 % of the respondents strongly agree that they are able to manage study time effectively and easily complete assignments online, 32% agree, 35% say neutral and 28.4% disagree and 11.5% strongly disagree.

Learning is same in classroom and at home through online:

Majority 50.8% strongly disagree and say that learning is not same in classroom and at home through online, 22% disagree, 14.2% say neutral, 7.7% agree that learning is same in classroom and at home through online and 4.9% agree.
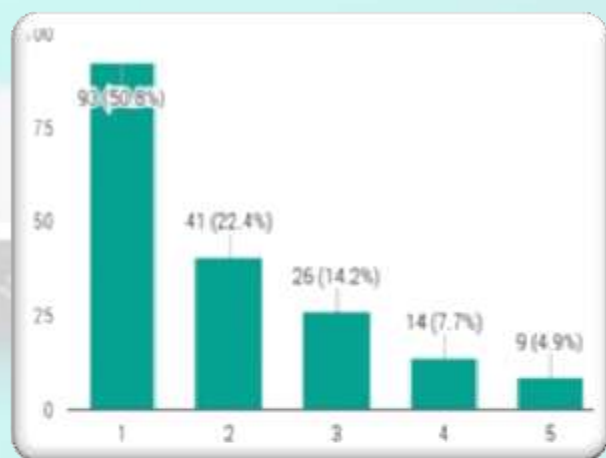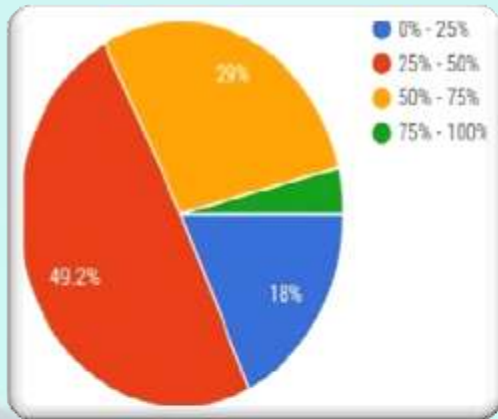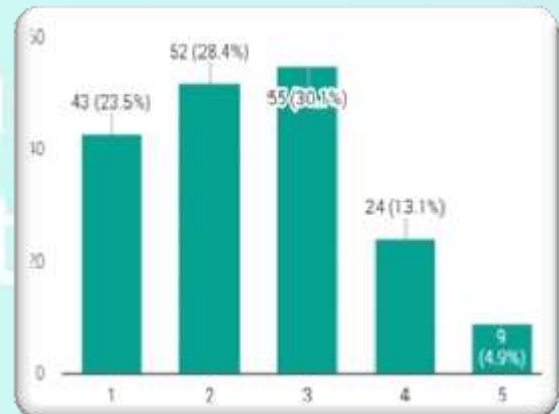
Extent of syllabus covered through online mode:

49.2% of the respondents say 25% - 50% of syllabus covered through online mode, 29% of respondents say 50 - 75% of syllabus covered through online mode and 18% say only 0% - 25% of syllabus covered through online mode.

Satisfaction level of online education:

Only 4.9% of the respondents are strongly satisfied with online education, 13.1% are satisfied, 30.1% say neutral, 28.4% of respondents are dissatisfied and 23.5% a strongly dissatisfied because they are not comfortable with online education.

Findings:

- 72.7% of the respondents are not comfortable in spending several hours in online classes.
- 66.7% of the respondents prefer offline classes than online.
- 42.6% of the respondents opinion neutral about access to internet for online classes.
- 35% of the respondents opinion neutral about managing the study time effectively and completing the assignments.
- 50.8% of the respondents strongly disagree that the online teaching and the classroom teaching are not equal.
- Majority of respondents say 25 - 50% of syllabus covered through online mode.

- Flexibility is a major benefit on online education, student who may not have the ability to participate in traditional class can often take online class.
- As per the respondents, most of the people strongly disagree to the online teaching because there as lack of willingness and desire to learn student are simply not motivated in online classes.
- As most of the respondents prefer traditional class because due to the classes are taken in person, it mean student receive immediate feedback from fellow classmates or lectures.
- As per respondents, most of them are not comfortable in spending several hours in online classes due to having poor online instruction can be harmful to a student's future and also lack of interpersonal communication.
- Online education is still related to stereotypes because people often think that online student are not smart enough for a traditional college or university, they are lazy and they don't get real degrees.
- The students have a tendency to underestimate the impact of never meeting the instructor and other student in the class.
- In school and college, students have a proper environment for study they are committed to learning with discipline and ready to explore creativity.
- From the study it can be concluded that the major advantages of online education is that time management as opposed to offline which have a regular timings set. Time savings is the main advantage found from this study, less absenteeism, numerous cost is less due to various reasons and student can finish their assignment quickly and there is more time left for hobbies or for finding a job and there is less of travelling expenses.
- The main disadvantage of the online education there is no proper feedback and major network issues, lack of concentration which makes it difficult to understand the concepts taught.

CONCLUSION

Online education is beginning to transform educational practice at all levels of our school systems. Online education has made rapid progress in the recent times, making it one of the most analysed and discussed subject in education system. In this paper, we have discussed the online education system as next generation education system and impact of online education system in Bangalore. The types of online education models and their importance are discussed. The advantages, benefits, constraints and disadvantages of online education systems are identified and discussed. We have also analysed the impacts of online education by preparing a questionnaire and knowing the satisfaction of the students studying in Bangalore through online. Finally, the online education system is compared with a hypothetical system called "Ideal education system".

However, while it may seem obvious that online education is consistently cheaper than traditional ones. Whereas online education may not reduce costs to the university, they potentially produce unmeasured benefits to the students. For instance, student travel costs are lower and schedule flexibility is higher. Online courses potentially provide an alternative method of exploring material which students would not otherwise pursue and online courses may reach audiences unable to attend traditional lectures. In this research, we found that many students are comfortable with online education as it is comfortable to attend and also can be scheduled accordingly. But there are also some limitations like network issues faced by students which become a barrier.

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