Analysis of Online Free and Paid Courses

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Abstract: Online course websites must be of high quality in order to help and encourage students gathering knowledge, understand the meaning, interpret problems and solutions, use and apply concepts and methods, analyze and classify material, synthesize structures and patterns, and make judgments about the value of materials and ideas. In this research concentrate on the web-based evaluation framework of online courses and Learning Management System (LMS), Massive Open Online Course (MOOC) based on web-based questionnaires that are directed at different target groups for the course contents and the design of the LMS as well as the website. Online learning is a growing and exciting new way to learn about almost anything. Online learning can continue to open doors and offer learning opportunities for those who are interested.

Keywords: E-Learning, E-learning Tools, Online Courses and Websites
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1. INTRODUCTION

E-learning is the utilization of innovation to empower individuals to learn whenever and anyplace. E-learning will be figuring out how to use electronic advancements to get to instructive program outside of a typical classroom. As a rule, it alludes to a course; program or degree conveyed totally internet learning is basically the system empowered exchange of abilities and information. E-learning alludes to utilizing electronic applications and procedures to learn. E-learning applications and procedures incorporate Web-based learning; PC based learning, virtual classrooms and computerized joint effort. Content is conveyed by means of the Internet, intranet/extranet, sound or video tape, satellite TV, and CD-ROM.

There are many terms used to portray discovering that is conveyed on the web, by means of the web, running from Distance Education to mechanized electronic learning, web based learning, web learning and numerous others. We characterize E-learning as courses that are particularly conveyed by means of the web to some place other than the classroom where the educator is instructing. It is intelligent in that you can likewise speak with your educators, teachers or different understudies in your class. Some of the time it is conveyed live, where you can electronically raise your hand and collaborate progressively and here and there it is an address that has been prerecorded.

There are two types of e-learning which defined below:

Synchronous e-learning: Any learning tool which is online chat and video conferencing, for example, web based informing that enables understudies and educators to ask and answer addresses promptly called as synchronous e-learning. The understudies, who participate in synchronous learning courses, can cooperate with different understudies and their educators amid the point. The fundamental preferred standpoint of synchronous learning is that it empowers understudies to keep away from sentiments of disengagement since they are speaking with others all through the learning procedure. It is not as adaptable as far as time as a schedule opening with a specific end goal to go to a live showing session and an online course continuously. So, it may not be perfect for the individuals who as of now have occupied calendars.

Asynchronous e-learning: Asynchronous learning is done when the understudy or instructor is disconnected. Interchanges and coursework conveyed through web, email, and message posted on group discussions. These are ideal cases of offbeat e-learning. In these specified cases, understudies will commonly total the lesson their

own. The web is supporting apparatus for discover the illustrations and tackle the issues. An understudy can take after the picking course at their own pace without worrying about planning clashes. The individuals who do not have the

1.1 TOOLS OF E-LEARNING

Internet

An Internet is not only a wellspring of credible material in English yet additionally a wellspring of data as articles, courses, gatherings and considerably more. The teacher can send assignments to the students through e-mails and can also take online exams. Parents can see their children's work online whenever. Understudies don't miss their lessons as now they can see a webcam variant on the web and get worksheets and notes from electronic online whiteboards. Schools are connected in a system and work on ventures together and plan materials on the web. Each school has got its own website.

Using YouTube

YouTube recordings can be utilized as a part of an ELT classroom for different parts of English as to improve vocabulary, emphasizes, elocutions, voice tweak and substantially more. The genuine favorable position of utilizing YouTube in showing English is that it offers bona fide cases of regular English utilized by ordinary individuals. The instructor can utilize it as a device for enhancing their Listening and Speaking, Reading and Writing aptitudes. The instructor can choose a piece of the motion picture suitable to the level of the understudies and s/he can demonstrate those film clippings to the understudies. For the first time, s/he can mute the volume and ask the students to watch the movie attentively. Laters/he can ask the students to watch the movie once again and this time s/he can ask the students to frame the dialogues of the movie clippings simultaneously. This will improve their speaking skills. Another activity to enhance their speaking skills can be: the

inspiration to do the coursework all alone may find that they don't get critical advantage from offbeat learning. There is no genuine intuitive instructive condition.

teacher can show a selected part of the movie to the students and further ask them to narrate the rest of the story of the movie or the climax of the movie. This will add to their creativity as well as their speech. The teacher can also prepare worksheets on the movie clippings in advance and ask the students to complete those worksheets while watching movies. This can prove a good activity to enhance their listening and writing skills.

Skype

Using Skype gives boundless potential outcomes to the instructors and understudies to team up with each other anyplace on the planet. It gives colossal chances to the understudies in an outside dialect class to interface with classes in different nations to rehearse their dialect aptitudes. Through Skype, the educators can give tutoring or homework helps to the students. The Students can read, display, or perform for different understudies and furthermore team up with different understudies on composing or research ventures. They can likewise take an interest in proficient improvement exercises inside or outside the school locale. As an online instruction innovation apparatus, Twitter's effect on drawing in understudies in learning ideas is boundless. The educator can utilize twelve exercises for utilizing an online training innovation instrument to connect with understudies in classroom exercises to build up a superior comprehension of ideas. The instructor can choose any class for the story and start the movement with a story opener which is tweeted to the understudies for commitment to the storyline. When all twitter arranges members have added to the advancement of the storyline, the

educator can break down their work. This includes altering, story structure, exploratory writing, and appropriate utilization of linguistic use. The educator can request that the understudies select an expression of the week and tweet it around the system asking for equivalent words, homonyms, and antonyms of the word. When all reactions are gotten, the instructor can check them for exactness and build up a connection of the troublesome words for reinforcing the vocabulary of the understudies. The educator can likewise lead Online Debates through Twitter. It should be possible with the understudies in a similar classroom or the understudies of the distinctive classrooms on the class twitter arrange. . Examples include "Pen is mightier than sword", the impact of fast food restaurants on a health issue, and much more.

Smart-boards

Intelligent whiteboards are great swaps for conventional whiteboards or flipcharts as they give approaches to demonstrate understudies everything which can be displayed on a PC's desktop (instructive programming, sites, and others). Keen sheets enable instructors to utilize an understudy focused way to deal with show dialect expressions. Dialect expressions instructors can utilize SMART Boards to enhance perusing and understanding and show linguistic use and composing. With a SMART Board, educators can join video, sound, Web perusing and word preparing to show understudies intuitively. The educator can utilize keen board to upgrade understudies' dialect aptitudes in play way strategy. For e.g. 'Pictogram' (Draw a photo and figure the word) can be played. With more youthful students, spelling races are extremely well known. Word diversions are an incredible method for settling classes and amending vocabulary. S/he can use anagrams or jumbled sentences for the Learners or s/he can also ask the synonyms or antonyms or the Lexis or collocation

words. The teacher can use different colors when writing. For e.g., While teaching grammar the teacher can use the Blue color pen for the nouns, the Yellow color for the verbs, and the Red color for the adjectives and the Green color adverbs.

For e.g.: The young (Red Color) boy (BLUE) jumped (Yellow Color) from the tall (Red Color) tree (Blue Color) quickly (Green Color). The teacher can likewise show passages with blunders and request that the understudies alter the sections or edit them. To show composing abilities the instructor can likewise utilize a story starter and request that the understudies compose a class story or chain story or companion story. S/he can likewise compose sentences in view of photos as it will show them the utilization and elements of the dialect. S/he can additionally utilize photos of people (i.e. characters from the book, people from history) and can request that the understudies write in "bubble" about their thoughts.

Mobile Phones

The use of mobile phones as a learning tool has a wide variety of applications. The teacher can request that the understudies take a photograph narrative utilizing the camera work on their cell phones. The teacher can give a theme subject for the narrative to the understudies. After taking a sufficient number of photos, the students can upload the documentaries prepared by them to websites such as Flicker and type narrative descriptions for each picture to share with their teachers, classmates, family and friends. Rather than taking out a lexicon, the understudies can just utilize their interpreter, and as opposed to trawling through books for a bit of writing, they can discover the book online books and be coordinated to a word.

Podcasting

Today the students are listening to news clips, music, and video clips via the Web. They are no

longer watching movies at the theatre or on the TV, they are watching via computers and handheld DVD players. The teacher can reach to these students in one new way i.e. through podcasts. A podcast is a progression of computerized media records which are conveyed over the Internet utilizing syndication encourages for playback on convenient media players and PCs. Utilizing podcasts in the classroom is very easy. The teacher can download many free ESL podcasts on the Internet to use in class. S/he can assign a podcast assignment for homework and form a discussion on the topic the next day. The teacher can also assign a music podcast that introduces students to the culture as well as how the language is often used creatively or the news channels through which the student can also learn the use of intonation and stress.

Blog

Blogging has turned out to be progressively famous, particularly in the domain of training as they are an awesome approach to share data and create exchange. Rather than course books and customary strategies, numerous instructors incline toward utilizing these new systems to help show understudies and pick up involvement with different types of online networking. Setting up a course blog doesn't need to be convoluted. Instructors can utilize a free stage, for example, BlogSpot, WordPress, or Tumblr to have the blog. These days, online journals can likewise show photographs and a few people are utilizing them with sound and even video, the instructor ought to urge the understudies to visit blog much of the time. S/he should react to understudy posts rapidly, composing a short remark identified with the substance/he ought to likewise make inquiries about what the student writes to make a boost for composing. Keeping in touch with the blog could be required, and it might frame some portion of the class evaluation. Understudies ought to be urged to post their composition homework on the blog rather than just offering it to the teacher.

2. LITERATURE REVIEW

M. Selim [1], This paper, in accordance with the writing, indicated eight e-learning basic achievement factor (CSF) classes that can help colleges and educators to productively and adequately receive e-learning advancements. The basic level of each CSF is assessed. The predetermined e-learning CSF classes depend on understudies' observations and included: teacher attributes (mentality towards and control of the innovation, and showing style), understudy qualities (PC competency, intuitive joint effort, and e-adapting course substance and plan), innovation (simple entry and foundation), and support. The eight CSF classes affect the choice to receive e-learning innovation in advanced education foundations. A specimen of 37 class areas with 900 selected understudies is utilized to recognize and measure the proposed e-learning CSFs. The understudies saw the eight CSF classifications as basic determinants of e-learning acknowledgment. All markers of the teacher's mentality towards and control of innovation demonstrated large amounts of criticality to quantify the set classification. The legitimacy coefficient esteems are over 0.75 demonstrating an abnormal state of legitimacy. The most basic markers are teacher's state of mind towards intuitive learning and showing through e-learning advancements. All pointers of the teacher's showing style yielded legitimacy coefficients of at least 0.69 demonstrating sensible to the most elevated criticality of all the 4 measures of this class. Understudy inspiration and specialized competency measures showed large amounts of legitimacy with estimations of at least 0.76. Past understudy involvement with PCs come as the most basic factor in this classification with a legitimacy coefficient of 0.89. The class exchange is the most basic factor in the understudy intelligent joint effort classification. Course content as an e-

learning CSF classification contained 7 basic elements. All legitimacy coefficients have estimations of at least 0.78. The course administration framework is the most basic factor in this classification with 0.89 legitimacy coefficient. In the innovative measurement, the simplicity of on-grounds Internet gets to class included 6 factors. The usability of the course web was the most basic factor, trailed by program effectiveness and screen plan. Unwavering quality of the data innovation foundation as a CSF class included 7 factors. The most basic factor among them was the accessibility of PC labs for training. PC organizes unwavering quality and understudy data framework come in the second place of criticality with 0.87 legitimacy coefficient. College bolster is not restricted to specialized help and investigating but rather included library and data accessibility. Understudies demonstrated that they would enroll in future e-learning based courses guaranteeing their inspirational state of mind and support to e-learning innovation and instruments.

Glaser and Strauss [2], Out of 10 measurements their examination found a system of chance is an essential reality that understudy's esteem, which has not been considered if any event before has been distinguished. They attempted to expand a nitty gritty examination of a developing wonder, MOOC which is wide spreading in instructive reorganizations. The quantity of MOOCs and stage suppliers continue ascending with the interest for electronic learning. With this improvement, the client's point of view of the viability of e-learning has been influenced. It was essential to distinguish the components influencing to a successful e-learning in MOOC stage.

Kargiban and Kaffash [3], determined that their undertaking is on the potential outcomes of MOODLE in the virtual educating and learning condition. MOODLE is has picked in a virtual learning condition for applying in English dialect learning in the classroom. This examination incorporates two sections the initial segment is a general perception towards MOODLE in instruction and the second part concentrates on the adequacy of the utilization of the MOODLE for English dialects getting the hang of as per understudies' state of mind to the utilization of the MOODLE. MOODLE can be utilized to incorporate a course with online exercises that assistance them to build their remote dialect capability and furthermore their ability in Information and Communication Technology (ICT). Most remote dialect courses in optional schools are upheld by reading material that give a lot of sound material like sound tapes, CDs, and even CD-ROMs, yet understudies appear to be very hesitant to the utilization of these devices. The thought here is to take the upside of MOODLE e-learning condition to enhance the learning procedure, through a total investigation of the showing assets, substance and others as the guides to the course book picked. MOODLE likewise upgrades understudy self-rule. The classroom movement engagement is helped understudies in the learning procedure, ability advancement and the utilization of gadgets to help expertise improvement.

Mohammadi et.al [4], distinguished that the advancements in Internet and interactive media innovations are the essential empowering agent of e-learning, with substance, advances, and administrations being recognized as the three key areas of the e-learning industry. While there are two extra divisions, those being the counseling and bolster segments. PC helped dialect learning (CALL) programs give media sounds, recordings, illustrations and writings which enable students to be presented to target dialect and culture. To take in a dialect like English by means of utilizing mixed media innovations, understudies ought to act naturally coordinated and utilize new methodologies. Since taking in a dialect like English is done in a simulated way; that is, it occurred in a substantial, educator ruled class and in a de-contextualized setting in non-local nations,

learning English by means of web and interactive media is a troublesome work. The Internet causes individuals to speak with local speakers by means of talk rooms and messages. Truth be told, understudies are presented to a contextualized situation by utilizing the web. Through utilizing the web and the web, understudies can fortify their informative capabilities, acquaint with various societies and reinforce their essential aptitudes like tuning in, talking, perusing and composing. In online and web learning, nervousness is lessened, and reactions are exchanged rapidly and students get more certain. Instructors attempt to incorporate the web with their instructional materials and instructing styles to make a significant learning condition. Messages and visit rooms which are done by means of the web are an imperative piece of correspondence amongst students and teachers and furthermore enhance the composition abilities of students in dialect learning. Students can upgrade both their exactness and familiarity by means of utilizing the web. The utilization of e-learning, electronic gadgets, the web, PCs in educating and learning process increment as well, and we need to synchronize ourselves with it and increment our capacities to have the capacity to work with innovations to build our insight. The more educators and students get comfortable with advancements, the more they can utilize and consolidate them with their showing styles and these advances furnish instructors with viable and imaginative thoughts and influence them to make their own mixed strategies.

Tai and Ting [5], talked about research has widely investigated instructor selection of advancements. They are developmental investigated how pre-benefit educators figure out how to utilize innovation and investigated formal and casual CALL arrangement and instructor demeanors toward innovation, the creators considered the connection between educator certainty with CALL and their imaginative and incorporated utilization of innovation. The paper is inspected the outline of

good institutional settings for development in an innovation interceded learning condition. These innovations have been investigated and utilized for dialect learning because of their fame. For instance, scientists anticipate that students will utilize their cell phones, just on the grounds that they possess one. Cell phones have turned out to be ordinary devices in a wide cluster of settings that may incorporate instructing and learning nearby work and recreation, in both formal and casual settings. Under the subject of examining pre-benefit instructor utilization of advances, inquire about concerning PC advances has demonstrated that the learning of a mentality toward the innovation may decide the level of educator achievement in utilizing innovation following instructional innovation educator readiness.

Qi et.al [6], has writing survey, which checks that the separation instruction is finished by the essential pursuit of online training. Customary training gives the arrangement of essential pursuit which depends on web based instructing and learning. These days the understudies and educators utilized advanced education data in the classroom through the virtual mixed model. The utilization of e-learning apparatuses to enhance the experience of students and educators, those frequently associate with the online instructive framework. The execution of e-learning is bolstered by e-learning devices which give the office to instruct the students that how to educate a specific subject or theme. E-learning gives the disconnected and online guides. The abnormal state instruction is online showing since it gives the live arrangement of the issue. This is the primary advantage of electronic learning and educating. E-Learning alludes to the way individuals impart and learn electronically. With the fast improvement of ICT, EL is turning into another, compelling learning strategy nearby classroom learning. Albeit still a rising field, it offers many advantages that are profoundly unique in relation

to a traditional classroom-based learning condition can at present create comes about for understudies, i.e. in the nick of time; available from any site with the correct hardware; cost-viability; personalization; student. It expressed that EL approaches have empowered understudies to work at their own pace, time permitting and picked area, in this manner expanded assorted enrolment.

Smith and Greene [7], inspected that the basic role is to enhance pre-benefit educator training by utilizing innovation to help pre-benefit instructors conquer any hindrance between scholastic planning and practice. The auxiliary, yet at the same time vital, the goal is to acquaint pre-benefit educators in the utilization of innovation to help their future academic exercises. Accordingly, this examination tried to build up a technique for preparing college understudies in outlining, executing, and assessing lesson intends to harden the connection between research, instructional method, and educating practice. This examination researched the execution of e-learning as a strategy for direction to help pre-benefit instructors assess and enhance the usage of their lesson designs amid their certifiable practicum encounters. In examining the instructing of innovation helped educating, they had distinguished two difficulties: to begin with, the need to by and large increment the specialized competency of pre-benefit educators, and second, the need to enable them to better sees how e-learning advances can be adequately connected. Along these lines, they needed to assess methods for acquainting pre-benefit instructors with utilizing e-learning innovation while displaying the utilization of innovation to accomplish an arrangement of academic learning destinations. Since they didn't have the assets to actualize a devoted "Educating with Technology" course, essayists expected to distinguish a course inside a current educational module where they saw a chance to have our understudies utilize e-learning innovation to

improve their learning. The objective for instructor teachers at that point is to move the emphasis from thinking about themselves to pondering the learning forms required for themselves and their understudies. One approach to help pre-benefit instructors see past them and to start concentrating on their understudies might be through the coordination openings that innovation gives. Instructor instructors ought to give chances to pre-benefit educators to see innovation incorporation, to watch tutors actualizing suitable innovation hones, to wind up architects as opposed to clients of innovation.

Alowayr and Badii [8], depicted that e-learning arranged data and correspondences innovation is an advanced procedure in the educating and learning of college understudies. There are various terms that are utilized with the end goal of depicting this online method of educating and learning. The technique most broadly utilizes online exercises, virtual learning, and an electronic learning system and dispersed educating. In this sort of instructive conveyance, data and interchanges innovation are followed in synchronous and offbeat modes. If an examination of the whole procedure is made, unmistakably these correspondence advances diverse instructive procedures and thusly can't be utilized all the while. It is clear from the data accessible, the part correspondence and data innovation to give openings in the zones of putting away, catching and dispersing data. Regardless of whether it can a vast assortment of data and its quality on learning, nature and the degree impact and so on is liable to verbal confrontation and dialog. Video cuts are utilized for pretending based learning have made the learning and showing background additionally engaging and progressive. It has been seen that understudies who for the most part need to avoid school are exceptionally energetic by creative educating strategies. PCs are second in line to give mechanical advancement, both with the assistance of the most recent programming and equipment, in

the range of a successful e-learning process. The idea of e-learning with the utilization of PC related devices that keep running on the Web 2.0 structure will be talked about in this writing audit to better comprehend them. Educators and students all through the world who have utilized e-learning have made this mode a critical piece of satisfying their instructive needs.

Baskaran and Shafeeq [9], led the examination under such conceivable outcomes of innovation in dialect instructing and learning breathed life into exchanges on Computer-helped Language Learning (CALL), which is characterized as "the scan for and investigation of uses on the PC in dialect educating and learning". CALL may not be another marvel for the propelled nations, however the conceivable outcomes of CALL in the Indian setting, particularly in the rustic regions, where mechanical foundation is similarly restricted in nature, must be dissected further. The issue can be additionally supported when we consider the quick innovative headway that upset the data and correspondence frameworks. As dialect educators, the analysts will undoubtedly acknowledge the difficulties postured by PC and to make the instructing of English more enthusiastic and coordinated. As educators' use of PCs relies upon their view of innovation, they will probably interpret their convictions and recognitions into instructional practices.The exhibit examine gives an investigation of academic and mechanical impression of ESL instructors on coordinating CALL into ELT. It has been set up that PC programming can be utilized a medium for correspondence and arrangement of importance in the objective dialect. As of now, PCs and the Internet together have been depicted to be the apparatuses with the most potential for the field of dialect learning. PCs speak to an extraordinary potential for the help of dialect input considering their capacity to coordinate interactive media material, for example, recordings, pictures, and content at the same time in one single screen.

Hulme et.al [10], this paper gives an account of the utilization of on the web, versatile helped dialect learning (MALL) is attempted to find how far cell phones are being utilized to help social contact and community oriented learning. Their enthusiasm for talking and listening practice and in the conceivable outcomes for both synchronous and offbeat cooperation with regards to on the web and separation learning. Early eras of versatile learning ventures tended to propose formally-outlined exercises, precisely created by instructors and technologists, and utilizing developing advances that were not yet generally available or surely knew. M-learning is recognized both by being accessible anyplace, whenever and by the apparatuses utilized: portable learning can maybe be characterized as any instructive arrangement where the sole or prevailing advances are handheld or palmtop gadgets althoughas a general rule it is all the more typically bound to being one part of the arrangement. Shopping center varies from PC helped dialect learning in its utilization of individual, versatile gadgets that empower better approaches for getting the hang of, underlining coherence or immediacy of access and association crosswise over various settings of utilization. This approach was deserted when planning troubles interceded. The action is requiring oral collaboration is additionally tried at Stanford University, where students utilized their cell phones to participate in programmed voice-controlled linguistic use and vocabulary tests. This exploration paper is inferring that MALL is superior to CALL.

M.Lu [11], According to M.Lu the viability of SMS vocabulary lessons of constrained lexical data on the little screens of cell phones. Thirty secondary school understudies were haphazardly dispersed into two gatherings and given two arrangements of English words either on paper or through SMS messages amid two weeks. Understudies perceived more vocabulary amid the post-test after perusing the general and brief SMS lessons than

they did in the wake of perusing the moderately more point by point print material. Subjective information from interviews offers data about the learning procedure and in addition the advantages and constraints of m-learning. M-picking up (learning helped by portable innovations) has incredible potential in furnishing EFL students with substantial presentation to the objective substance as students can do self-learning whenever, anyplace with the help gave by versatile innovation. The paper material can't convey pushing messages like cell phones can. The advantage of its likelihood and instantaneousness may not be produced. Be that as it may, the restrictions of the portable innovation posture challenges in advancing learning by means of cell phone. The lessened screen estimate, natural in the movability of the cell phone, makes the writings conveyed by means of cell phone unmistakable from conventional messages on paper or different writings conveyed by means of huge screened PC. The examination of the notable cases infers that there might be a positive connection between's recurrence of perusing the SMS lessons and vocabulary picks up, which additionally bolsters the subjective advantage in learning by means of cell phone. Understudies who read the SMS lessons more as often as possible recovered vocabulary increasingly and the individuals who at times read the SMS lessons recovered less. Different materials and numerous modules can encourage learning. The cell phone, alongside other PC innovations, is growing the rundown of instructional devices for educators and understudies. It can be an option instructional device for students of exceptional needs or a reciprocal instructing material that offers numerous learning openings.

Dr. Santosh Kumar Bahera [12], revealed that the world is experiencing changes because of a fast improvement of Information and Communication Technology. The paper can't work in the public without on-line innovation. Online innovation is additionally entered in the field of instruction. Electronic Learning is a subset of Distance Learning and Mobile Learning is a Subset of E-learning. E-learning and M-learning have turned out to be critical trendy expressions of the instructive, innovative unrest; each describing an entire pontoon of thoughts and assets for the well-informed educator. In any case, the two terms are not generally utilized accurately, with some disarray about the contrasts amongst them and where they cover. What's more, in more intricate terms, thinking about the contrasts between E-learning and M-learning can be especially valuable for instructors who utilize innovation in the classroom, as it can help them to select which systems are best for which training situation. The cutting-edge innovations especially the web made training never again restricted to the four dividers of the classroom. E-learning contains all types of electronically bolstered learning and instructing. The data and correspondence frameworks, regardless of whether organized or not fill in as particular media to actualize the learning procedure.

Robert Godwin-Jones [13], analyzed that a colossal advance up in usefulness touched base with the Apple iPhone in 2007. It is not just the iPhone's own propelled highlights which have ended up being a distinct advantage in the versatile zone yet additionally the way that its prosperity has driven contenders to make another similarly skilled gadget. The littler screen measure influences the decipherability of the full-page show, however the iPhone presented touch activities, for example, twofold tap and two-finger zoom to enable littler content to be perused. Its main role is to help in learning stroke arrange for composing Chinese characters, yet it likewise incorporates a broad double dialect lexicon, highlights magnificent liveliness, and incorporates the individual library and testing capacities. Another well-known application for Chinese is Pleco, which begins as a free application however

includes usefulness through a substantial number of paid additional items, for example, particular word references, upgraded penmanship acknowledgment, and optical character acknowledgment. The application additionally consequently synchronizes the client's learning status of the application with that on the Website and permits lesson substance to be downloaded for disconnected investigation, one of the advantages of applications over the live Web.

Cui and Bull [14], this paper considered that the developing utilization of cell phones there is presently expanding enthusiasm for the potential for supporting the portable student. This paper considers how to help the versatile dialect student utilizing a handheld PC. It presents TenseITS, a dialect learning condition that adjusts the communication to the individual student's understanding, as spoke to in a student show developed amid the connection. It likewise adjusts as per relevant highlights of the student's area that may influence their capacity to contemplate the probability that they will be hindered by others; their general capacity to accumulate at that area; and the measure of time they have accessible for ponder. Savvy mentoring frameworks (ITS) construct a model of the individual student's learning, troubles, and confusions, as they associate with the framework. This student model can be contrasted and a model of the objective space to empower reasonable instructional exercise techniques to be induced by the framework, as fitting for the student as indicated by the substance of their student demonstrate i.e., the instructive connection is custom fitted to the adapting needs of the individual understudy. Most ITSs are intended for use on standard desktop PCs or portable workstations, and it is accepted that the client will utilize nature in a solitary area or a comparative arrangement of areas. It additionally has a tendency to be accepted that the client will have sufficient energy to give to the learning errands and that they will have the capacity to

focus on their learning. The framework can be stretched out to different regions of English those Chinese understudies and DIY cult, for instance, the utilization of articles.

Susan Bull [15], indicates about the local and non-local dialect move in CALL. Exchange from local dialects has been very much archived, in any case, in a few conditions; the exchange may emerge because of reference to other outside dialects known by an understudy. The illustrations recognized the impact of different dialects in learning of Spanish as an outside dialect. This impact does not come just from local English but rather likewise to fluctuating degrees from four other already learned remote dialects (French, German, Italian and Latin). The move was at times a consequence of cognizant endeavors to encourage securing through correlation with these different dialects and here and there happened without think consideration. The undeniable strategy for capability managing the topic of move in the insightful PC helped dialect learning (CALL) condition is to incorporate into a dialect learning framework portrayal of different dialects known by understudies. This paper has accentuated the significance of move in second dialect obtaining; in addition, it has featured the pretended by other remote dialects notwithstanding the student's local dialect.

Sakarkar et.al [16], the exploration has directed the material of the pattern of modernization has entered the online e-learning framework likewise that it is being utilized for advanced education through the Internet. The traditional online e-realizing which gives learning data just as electronic information is quite recently static data showing electronic framework or utilizing independent PC applications gather on CD/DVD. However, the present period of data framework can proceed, as in data in content or in interactive media arrange is shown as well as showed in an astute route, according to the information level of

the online student, much the same as the human teacher. The proficiency of online e-learning is enhanced by assessing the understudy's execution, offering criticism to the coach and giving dependable inquiry reaction framework with a mix of computational insight of online e-learning framework and successes of the astute portable operator framework. The creators proposed the personalization specialist utilized as a part of an online e-learning framework to recover learning materials considering psychological style, individual inclinations, and earlier information. The issue with the current electronic online e-learning framework is the absence of personalization because of frail semantic learning assets.

PAUL and SANTHI [17], this paper covers Cloud registering is the Internet ("CLOUD") based advancement and utilization of innovation ("COMPUTING"). Distributed computing is a general term for anything that includes conveying facilitated benefits over the Internet. The standards of distributed computing, fundamentally suggest an adjustment in the method for taking care of the issues by utilizing PCs. Distributed computing so as to not need to spend any cash to construct and keep up your IT framework. When you need utilizing processing assets like application programming, you simply obtain that office from an outsider association, and access that administration through the Internet. Consequently, you pay the specialist organization as you utilize the processing power. To put it plainly, in a cloud situation, you don't have to purchase any equipment and programming to maintain your business applications in this way it encourages you limit your speculation on equipment assets. Online learning offers a few advantages over regular classroom-based learning. Its greatest focal points are the decreased expenses since a physical domain is never again required and along these lines it can be utilized whenever and place for the comfort of the understudy. E-Learning in the

Cloud can be seen as Education Software-as-a-Service. Its sending can be performed effectively since the equipment necessities of the client are low. Further, it lessens the weight of upkeep and support from the instructive foundation to the seller. The improvement of e-learning arrangement can't disregard the distributed computing patterns. There are many advantages from utilizing the distributed computing for e-learning frameworks. Likewise, there are a few impediments that must be considered. The highlights of the Cloud Computing stage are very suitable for the relocation of this learning framework with the goal that we can completely abuse the potential outcomes offered by the making of a compelling learning condition that offers customized substance and simple adjustment to the present instruction show.

Lenka et.al [18], indicated about the online examination bolster for Business English is a 14-module course in the MOODLE Learning Management System (LMS) which is utilized for think about purposes on the B1 level of the Common European Framework of References for Languages. The investigation depends on the treatment (e-learning strategy) and the estimation (pre-tests and post-tests) and the correlation of the consequences of the test assemble educated through e-learning and the control aggregate educated through the up close and personal direction. E-Learning module is intended for IT experts, understudies and English dialect coaches to connect the present hole in the English for Specific Purposes (ESP) and IT-related materials, to encourage crafted by educators, energize long lasting learning and self-think about. The paper depends on the investigation of the aftereffects of a study concentrated on the distinguishing proof of the necessities, unique needs of clients of the proposed module. The study is led through a survey given to IT understudies and through meetings with IT experts. The specialist Keller (2007) directed research on the utilization of

business self-examine programming bundles that are accessible on the Czech programming market for upper-moderate students of English for his confirmation theory. It can be presumed that the test investigate is unique and commitment to the academic and second dialect inquire about. E-learning empowers the understudies to change figuring out how to their individual needs and time necessities, it is persuading for them. The understudies of the exploratory gathering are measurably altogether better in listening appreciation; they had the very same outcomes in interpretation and composing as the control gathering, and somewhat more terrible outcomes in vocabulary and perusing cognizance than the control gathering, however not factually huge.

Kakoty et.al [19], depicted that e-learning is an exceptionally expansive idea. E-adapting for the most part alludes to organized and oversaw learning encounters and may include the utilization of the Internet, CD-ROMs, programming, other media, and broadcast communications. In view of the adaptable idea of E-learning and since it gives the correct data in ideal time and in perfect place, understudies are presently more well-known and feel greater in this new training framework. As the innovation is propelling, the request of web based learning is likewise expanding. The advancements, apparatuses, strategies, procedures and norms are progressing such that it needs to overpower the capacity of educationists to seclude, study, and write about the best techniques to be utilized for any given gathering of people. As indicated by an examination think about in Europe, it has been seen that E-adapting course adequacy is 93.5%, and 92.5% says that course fulfillment in this framework is not basic. E-learning is unquestionably a developing field in the instructive and preparing business sector and e-learning standard is a recently rising range; there are many difficulties in the execution of

experiencing innovative changes and advancements.

Zanjani and Ramazani [20], this paper directing the exploration about acknowledgment of e-learning innovation completed by English educators and understudies in view of innovation acknowledgment demonstrate (TAM). The goal of the examination, the scientist has utilized the distinct review strategy and furthermore poll and meeting with English understudies and instructors who constitute the number of inhabitants in the exploration. Acknowledgment of data innovation by English educators and understudies is critical. In this exploration, we endeavor to inspect E-Learning in light of model TAM which is a behavioral model in tolerating innovation delivered by Davis in 1989 with a specific end goal to examine the conduct of clients towards data innovation. The attention is on comfort and viability saw of E-Learning by English instructors and understudies. In this way he inferred that utilizing these offices can improve learning in various parts of the English dialect and overall English dialect itself. This exploration tries to deliver aftereffects of overview look into by understudies and educators of English dialect with the end goal of examining acknowledgment of electronic instruction.

Mirela-Cristina Pop [21], talked about the course is planned as a learning apparatus of French for particular purposes in the specialized colleges. The investigation displays the hypothetical and methodological approach that is established on the advancement of the course, the course material structure, the proposed instructive assets, conventional and electronic, to meet instructive targets, the significance of utilizing specialized methods for data and correspondence with a specific end goal to enhance the remote dialect educating and learning. The joining of new advancements into the instructive procedure has opened the path to the reconstruction of the

instructive framework, both on an undergrad, and additionally a graduate level, to the re-examining of the academic techniques, systems and assets utilized as a part of the educating, learning and appraisal process, as per the kind of preparing visualized: nearby, e-learning, remove learning or blended (mixed learning).

The use of new innovations inside the instructive procedure includes the adjustment of the substance of the preparation programs, of the instructing and learning techniques and strategies and of the instructive assets. The exploration subscribes to the hypothetical and methodological approach provided by CEFRL (2001), as per which the remote dialect educating and learning depends on creating open dialect abilities. In this examination, the course content has been adjusted by the particular preparing (remove consider program), the particular investigation program (scholarly specialization in structural designing) and to the necessities of the recipients (procuring open skill in composed and oral specialized French in proficient circumstances particular to the field of structural building). The instructive assets portrayed might be utilized as a part of request to combine the learning instructed and as instructive guides with a specific end goal to explain the assignments proposed.

Solanki D. Shyamlee [22], analyzed that advancement of data innovation has offered a superior example to investigate the new instructing model. The innovation assumes an imperative part in English educating. U Multimedia is utilized to make a setting to show English has its one of a kind focal points. This paper tries to investigate the need of sight and sound innovation to dialect educating and furthermore draws out the issues looked by utilizing these advancements. It additionally plans to make English educators mindful of the systems to utilize it in a compelling way. The new time allocates new difficulties and obligations on the

cutting edge educator. The convention of English instructing has been radically changed with the exceptional passage of innovation. Innovation gives such huge numbers of alternatives as making instructing fascinating and furthermore making showing more profitable as far as upgrades. Innovation is a standout amongst the hugest drivers of both social and etymological change. The quick advancement of science and innovation, the rising and creating of sight and sound innovation and its application to educating, highlighting sound, visual, movement impacts comes into full play in English class instructing and sets an ideal stage for change and investigation on the English showing model in the new period. There are numerous systems relevant in different degrees to the dialect learning circumstance. Some are utilized for testing and separation training, and some to teach business English, communicated in English, perusing, tuning in or translating. Without a doubt one of definitive objectives of media dialect instructing is to advance understudies' inspiration and learning premium, which can be a common sense approach to get them engaged with the dialect learning. The procedure of English learning will be more understudy focused however less tedious.

Gilbert et.al [23], This investigation overviewed the improvement of e-learning items and the arrangement of e-learning openings is a standout amongst the most quickly growing ranges of instruction and preparing, in both training and industry. Instruction and preparing are ready to wind up plainly one of the biggest segments on the planet economy. E-Learning is being perceived as having the ability to change the execution, information and aptitudes scene. It can, along these lines, appear to be fitting to concentrate consideration on the understudy involvement of e-learning and to tune in to understudy's voices in trying to expand our insight into e-learning. Effective Information Systems, a module conveyed in e-learning mode to understudies on the MSc

Information Technologies and Management (e-Learning). This was the primary module that they examined on this e-learning developer, thus for some, it will have been their first experience of learning. Reactions to the general inquiries on those parts of the module that is helpful, and those that would profit by facilitate consideration convey to the surface the achievement criteria that understudies apply in module assessment in these modes.

Amiri [24], According to Amiri both educating and learning are encouraged by use of digital advances. It would talk about that how instructors can make dialect learning in instructive conditions more agreeable through accessible apparatuses for dialects. The utilization of innovation in different fields has been so fruitful and valuable for educators to achieve some specific objectives, particularly in instruction and for the individuals who are taking in an outside dialect. Online advancements and intense web associations give different new potential outcomes to the improvement of instructive innovation. Understudies learn quicker and simpler than before due to the utilization of innovation in instructive organizations. Electronic advancements and capable web associations give different new conceivable outcomes and most recent patterns for educators and students. Moreover, consideration must be paid to the way that mixed media helped dialect learning and Internet-based guideline adds to EFL understudies' culturally diverse capability According to 'EisaAmiri' the scientist is prescribing that more research is required in which understudies can appreciate and take in the dialect viably. He expected that if the online investigation way is intriguing then the students effortlessly comprehend the dialect that how to utilize innovation for contemplate reason.

Alharbi and Drew [25], got to the investigation of innovation acknowledgment display (TAM) trying to help state funded colleges, especially in Saudi

Arabia, in anticipating the behavioral aim to utilize learning administration frameworks (LMS). This investigation proposes a hypothetical system that incorporates the centre builds in TAM: to be specific, seen convenience, saw helpfulness, and state of mind toward utilization. The expanding access to ICT makes another worldview for instruction known as e-learning. Along these lines, colleges around the globe have begun to amend their procedures so as to receive innovations that help with accomplishing their instructive objectives. E-learning is regularly characterized as the purposeful utilization of ICT in educating and learning. One of the ICT instruments that are fused into the instruction division is known as a learning administration framework (from now on LMS). LMS is one of the quickly rising advancements that are generally utilized as a part of advanced education, regardless of whether in open-source (MOODLE) or business LMS, for example, Blackboard. Because of their capability to utilize a LMS, a non-client amass is additionally inspected. As indicated by Taylor and Todd, TAM has effectively anticipated and clarified practically parallel behavioral aim to receive another innovation among unpracticed and experienced clients. Further, Shih noticed that TAM can be connected preceding the reception of another innovation. Cap essentially to approve the connection between the TAM centers develops and additionally the impacts of mediators proposed with this investigation. Obviously, when scholastics saw LMS as simple to utilize, they built up an inspirational state of mind towards using it. This investigation adjusted the first TAM with a specific end goal to quantify scholastics' behavioral aim to utilize a LMS. The present investigation receives the centre builds utilized as a part of TAM.

Adwan et.al [26,] the creator looks at the getting the hang of utilizing innovation has turned into a prevalent approach inside advanced education foundations because of the nonstop development

of Internet developments and advances. Advanced education foundations in created Western nations trust that these improvements offer rich chances to implant mechanical developments inside the learning condition. The mix of conventional learning (up close and personal addresses) and electronic courses is known as mixed learning. E-learning offers the adaptability of time and place which permits advanced education organizations and their understudy to convey or get learning materials in a more adaptable way. E-getting the hang of preparing and advancement concentrated on how innovation could help understudies to enhance their execution and viability in adapting, instead of on the genuine utilization of innovation. This empowers clients (understudies) to all the more promptly distinguish the advantages of e-learning and investigate the open doors it offers them to enhance their execution. Therefore, this propels more prominent support in e-learning with a positive and innovative demeanor.

Islam1 et.al [27], the creators talk about the coming of e-learning innovation, scholastics are confronting the difficulties of gaining and executing IT abilities for the reasons for educating. As indicated by some recognized analysts that the web is an ideal device for discovering that offers adaptability and convenience to students in the meantime offering unlimited open doors for advancing instructing. The investigation of figuring innovation in Kenyan Higher Education shaped important experiences into the reasons that impact e-learning acknowledgment by understudies; the examination gave new plans to advanced education administration for dispersal and implantation of processing innovation for the motivations behind learning. They reasoned that the accessibility and access to figuring innovation, the quality, and character of the organization pioneers assume a basic part in the accomplishment in E-Learning dissemination. The result is decreased in light of the fact that understudies of various dialects react contrastingly

to how things are composed in e-learning advances and furthermore understudies of various societies have distinctive capacities to work with e-learning innovation. Teachers need a decent grasp on innovation and empowering state of mind towards e-learning for a positive learning result. This implies important preparing must be passed onto all scholastics for an organization to be fruitful in accomplishing their higher scholastics targets.

3. DATA COLLECTION OF ONLINE COURSES

3.1 Udemy: Udemy is the online education site that tops this list for being such an incredibly popular and valuable resource. You can search through over 40,000 courses in all sorts of different topics and download the Udemy app to take your learning mobile for quick lessons and study sessions when you're on the go.Udemy courses aren't free, but they start as low as $12. If you're an expert looking to create and launch a course of your own, you can also become an instructor with Udemy and take advantage of their massive user base to attract students.

Top online courses list by Udemy:

Table no. 3.1.1

Sr. no.	course name	pdf notes / language	video lect.	price of course	students enrolled in course	Ratings
1.	My Biggest Photoshop Course	3 articles/ English	on demand	680	130448	4.5 (2,416 ratings)

2.	CompTIA Network + Cert (N10-006): Full Course	13 articles/ English	on demand	680	2247	4.8 (86 ratings)
3.	The complete React and Redux course: Build modern apps	6 articles/ English	on demand	680	2747	4.8 (36 ratings)
4.	Web Programming Course	no article	on demand	680	2760	3.7 (78 ratings)
5.	Spring & Hibernate for Beginners	53 articles/ English	on demand	680	22517	4.7 (5,414 ratings)
6.	Cryptocurrency Long-term Investment Opportunity 2017	1 article/ English	on demand	680	3165	4.4 (1,000 ratings)
7.	Learn Linux	1 article/ English	on demand	680	48934	4.5 (6,358 ratings)
8.	Acupressure Shortcuts	1 article/ English	on demand	8100	29	5.0 (6 ratings)
9.	Online Japanese N2 Course	2 article/ English and Japa...	on demand	6100	2493	4.7 (84 ratings)

		nese				
10	Deep Learning Prerequisites: Logistic Regression in Python	no article	on demand	4900	9911	4.6 (924 ratings)

According to my opinion, Udemy is a huge website, which provides many numbers of courses those are very useful.
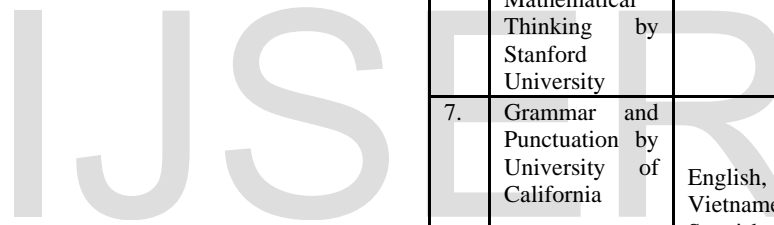
Udemy is the best for Python programming and business courses. But it has a shortage of different languages courses.

3.2 Coursera: If you're looking to take courses from over 140 of the country's top universities and organizations, then Coursera is for you. Coursera has partnered up with the University of Pennsylvania, Stanford University, the University of Michigan and others to offer universal access to the world's best education. You can find both paid and unpaid courses in fields related to computer science, business, social sciences and more. Coursera also has mobile apps available, so you can learn at your own pace. Coursera is a company on a mission to provide universal access to the world's best education. Coursera partners with more than 100 of the world's top universities and educational institutions to offer online courses in a wide range of the most current disciplines for anyone to take, for free. More than 10 million learners globally have come to Coursera to gain knowledge and skills from the world's most respected academic experts and earn Verified Certificates to advance their lives, careers, and communities.

Top online courses list by Coursera:
Table no. 3.2.1

According to my opinion, all world level universities are available here for online courses.Coursera provides Data Science and R programming courses, which available different languages English, French, Japanese etc.For language purpose, it is the best website.

Sr. no.	course name	pdf file/language	video lect.	Priceof course	enrolled students	
1.	Journey of the Universe by Yale university	yes/English	yes	3174 /month		
2.	Business and Financial Modeling by University of Pennsylvania	yes	yes	5118/month	--	
3.	Data Science in Python by niversity of Michigan	yes	yes	3174/month	--	
4.	R Programming by Johns Hopkins University	English, French, Japanese, Chinese	yes	3174/ month	--	
5.	Life Sciences by The University of Edinburgh	English	yes	1879/ month	--	
6.	Introduction to Mathematical Thinking by Stanford University	English	yes	$49/ month	--	
7.	Grammar and Punctuation by University of California	English, Vietnamese, Spanish, Arabic	yes	3174/ month	--	
8.	Financial Markets by Yale University	English	yes	1879/month	--	
9.	Business English Communication Skills Specialization by University of Washington	English	Yes	3174/ month	--	
10.	Robotics: Aerial Robotics by University of Pennsylvania	English	yes	2526/month	--	

IJSER

3.3 Lynda: Lynda is a popular educational hub for professionals looking to learn new skills related to business, creativity and technology. Courses fall under categories like animation, audio/music, business, design, development, marketing, photography, video and more. When you sign up with Lynda, you get a 10-day free trial and then you'll be charged either $20 a month for a basic membership or $30 for a premium membership. If you ever want to deactivate your membership and then come back at a later time, Lynda has a reactivate feature that restores all your account information including all your course history and progress.

Top online courses list by Lynda:
Table no. 3.3.1

Sr. No.	course	pdf file/language	video lect.	price	enrolled students	ratings
1.	Python for Data Science Tips, Tricks, & Techniques	yes/English	yes	free trail From $29.99 per month	3056	4.7
2.	Data Science Foundation's : Data Engineering	yes/English	yes	free trail From $29.99/ month	29957	5.0
3.	Data Visualization : Best Practices	yes/English	yes	free trail From $29.99/ mont h	12873	4.3
4.	Business Math	yes/English	yes	free trail From $19.99/ month	16232	4.6
5.	Learning C# Algorithm	yes/English	yes	free trail From $19.99/ month	11171	4.3
6.	Creating Web Media	yes/English	yes	free trail From $19.99/ month	34175	4.7
7.	Deke's Techniques	yes/English	yes	free trail From $29.99/ month	2102938	4.8
8.	Programming Foundations: Web Services	yes/English	yes	free trail From $29.99/ month	790063	4.7
9.	Objective-C Essential Training	yes/English	yes	free trail From $29.99/ month	1172872	5.0
10.	SEO Foundations	yes/English	yes	free trail From $29.99/ mont	2837858	4.9

				h		
11.	Mobile Marketing Foundations	yes/English	yes	free trail From $29.99/month	541998	5.0

According to me, Lynda gives us Data Science and Mobile Marketing courses which are good courses.

It also provides best courses of Programming and Business courses.

It gives a free trail for a course enrollment.

But the lack is that all courses are provided in the English language, not in another language.

3.4 Open Culture: If you're on a budget but still looking for top quality education content, check out Open Culture's library of 12,000 courses with over 30,000 hours of audio and video lectures that are totally free. You'll have to spend a bit of time scrolling down through the single page that includes all 12,000 course links, but at least they're all organized by category in alphabetical order. Many of the courses available on Open Culture are from leading institutions from around the world including Yale, Stanford, MIT, Harvard, Berkley and others. Audio books, eBooks and certificate courses are also available.

Top online courses list by OpenCulture:

Table no. 3.4.1

Sr. no.	course name	pdf file/language	video lect.	price	ratings
1.	Big Data: Data Visualisation By Queensland University Of Technology	yes/English	yes	free	4.6
2.	Exploring Our Oceans By University Of Southampton	Yes	yes	free	4.5
3.	Shakespeare: Print and Performance by King's college London	yes/English	yes	free	4.7
4.	Understanding IELTS: Techniques for English Language Tests by British Council	yes/English	yes	free	4.5
5.	Crime, Justice and Society by The university of Sheffield	yes/English	yes	$54	4.6
6.	Introduction to Ecosystems by The Open University	yes/English	Yes	$54	4.3
7.	How to Survive on Mars by	yes/English	Yes	$54	4.5

	Monash University				
8.	Introduction to Learning and Teaching in Higher Education by UNSW Sydney	yes/ English	yes	$84		4.8
9.	Learning Online: Learning and Collaborating by University of Leeds	yes/ English	yes	$54		4.5
10.	Teaching Computing by University of Anglia	yes/ English	yes	$84		4.7

According to me, OpenCulture is neither good nor bad. This is an average website, which provides a miscellaneous number of online courses. This website does not give a free trial for taking a course and also not provide all languages of courses. Big Data and IELTS are the best and free of cost courses.

3.5 edX: Similarly to Coursera, edX offers access to higher education from over 90 of the world's leading educational institutions including Harvard, MIT, Berkley, the University of Maryland, the University of Queensland and others. Founded and governed by colleges and universities, edX is the only open source and nonprofit MOOC (Massive Open Online Courses) leader. Find courses in computer science, language, psychology, engineering, biology, marketing or any other field you're interested in. Use it for high school level education or to earn a credit for university. You'll receive an official credential from the institution signed by the instructor to verify your achievement.

Top online courses list by edX:
Table no. 3. 5.1

Sr. no.	course name	pdf file/language	video lect.	price	enrolled students	ratings
1.	Future Cities by ETH Zurich	yes/ English	yes	free		4.0
2.	Anatomy: Human Neuroanatomy by University of Michigan	yes/Engish	yes	free		2.5
3	Java Programming by The Hong Kong University	yes/English	yes	free with certificate $99		3.5
4	IELTS Academic Test Preparation by The University of Queensland	yes/English	yes	free with certificate $99		4.5
5	Japanes	yes/E	ye	FRE		4.5

Sr.no	course name	language	video lect.	price	enrolled students	Ratings
.	e Pronunciation for Communication by Waseda University	nglish, 日本語, Korean, Simplified Chinese	s	E Add a Verified Certificate for $49		
6.	College Algebra and Problem Solving by Arizona State University	yes/English	yes	FREE Add a Verified Certificate for $49		5.0
7.	Music Technology Foundations by The University of Adelaide	yes/English	yes	FREE Verified Certificate option closed		4.5
8.	Introduction to Biology - The Secret of Life by MIT	yes/English, Japanese	yes	FREE Add a Verified Certificate for $150		5.0
9.	Design and Development of Educational	yes/English	yes	FREE Verified Certificate		4.5

Sr.no	course name	language	video lect.	price	enrolled students	Ratings
	Technology by MIT			option closed		
10.	Computer Science and Programming Using Python by MIT	yes/English	yes	FREE Add a Verified Certificate for $49		4.5

According to my survey, edX website takes the courses from world's best universities like MIT, Queensland and The HongKong University. It provides English, Chinese, Spanish, Japanese almost all languages which are online available for learning purpose. All courses are the best in this website. But the lack is that if you want certified course then you have to pay fees for taking certificates, otherwise, almost courses are free, but some are paid.

3.6 Tuts+: Tuts+ is for those who work and play in creative technology. In addition to its vast library of how-to tutorials, courses are available in design, illustration, code, web design, photography, video, business, music, audio, 3D animation and motion graphics.Tuts+ has more than 22,000 tutorials and over 870 video courses totaling over 902 hours of content, with new courses being added every single week. You get a 10-day free trial before you'll be asked to stay for $15 a month.

Top online courses list by Tuts+:
Table no. 3.6.1

Sr.no.	course name	pdf file/language	video lect.	price	enrolled students	Ratimgs
1.	JavaScript	yes/Engli	yes on	free		4.5

	ye	sh	de ma nd		
2	Linu x for Web Desi gn	yes/ Engli sh	yes	fr ee		4.6
3	Intro ducti on to Vide o Editi ng	yes/ Engli sh	yes	fr ee		4.6
4	Adv ance d audi o proc essin g for vide o	yes/ Engli sh	yes	fr ee		4.3
5	Intro ducti on to Moti on Trac king	yes/E nglis h	yes	fr ee		4.6
6	upco ming					

According to my study, Tuts+ provides web designing courses and photography courses. This website is good for whom learning Photography and 3D animation. For engineering and other courses, this website is not good.

3.7 Udacity: Udacity offers both online courses and credentials that teach students the skills that are currently in demand by industryemployers. They claim to offer theireducation at a fraction of the cost of traditional schooling.This is an excellent platform to look into if you're planning on working in technology. With courses and credentials in Android, iOS, data science,

software engineering and web development, you can be sure to get access to the most up to date education in these innovative areas that are relevant to today's tech companies and startups.

Top online courses list by Udacity:
Table no. 3.7.1

Sr. N o.	cours e name	pdf file/la ngua ge	vi de o le ct.	pri ce	enrol led stude nts	rat in gs
1.	Andr oid Basics : Data Storag e by Googl e	yes/ Englis h	Ye s	fre e	begin	4.2
2.	Intro to Relati onal Datab ases	yes/ Englis h	Ye s	fre e	inter medi ate	4.0
3.	Machi ne Learni ng Engin eer	yes/ Englis h	ye s	590 00 Rs./ 6 mo th	1941	4.7
4.	Java Progr ammi ng Basics	yes/ Englis h	ye s	fre e	begin	4.3
5.	Statist ics by San Jose State Unive rsity	yes/ Englis h	ye s	fre e	begin	4.0

6.	Technical Interview by Pramp	yes/English	yes	free	intermediate	4.0
7.	Become an iOS Developer	yes/English	yes	31000 Rs/3 months.	627	4.7
8.	Artificial Intelligence Nano degree	yes/English	yes	53000 Rs./6 month	112	4.4
9.	Business Analyst Nano degree	yes/English	yes	59000 Rs./6 month	181	4.6
10.	Intro to Physics	yes/English	yes	free	begin	3.2

According to me, Udacity is Indian website. It provides Business, Engineering and Mathematics courses. Some of the courses are free and some are paid. It learns all courses only English language. For medium level, people can take this website's courses.

3.8 ALISON: ALISON is an online learning resource that offers free, high-quality courses, education services and community support. Their resources are designed for absolutely anyone looking for a new job, promotion, college placement or business venture.Choose from a variety subjects to pick from over 750 courses designed to provide you with

certificate and diploma level education. You'll also be required to take assessments and score at least 80% to pass, so you know you'll have the skills to move forward

Top online courses list by ALISON:

Table no. 3.8.1

Sr. No.	course name	pdf file/language	video lect.	price	enrolled students	ratings
1.	Beginner Level English - Foundations	English	Yes	free	4390	4.0
2.	Supervision - Effective Communication Skills	English	Yes	free	4490	5.0
3.	3D Printing with Windows 10	yes/English	Yes	free	4527	4.0
4.	Japanese Language: Time and Parts of Speech	yes/English, Japanese	Yes	free	4887	5.0
5.	Wind Energy – From Wind Turbines to Grid Integration	yes/English	Yes	free	3846	5.0
6.	Introduction to	yes/English	Yes	free	14518	4.6

	Digital Photography					
7.	Diploma in Web Design	yes/English	Yes	free	304913	4.2

According to my opinion, ALISON is a popular website for free online courses. For Speech, languages and Photography courses, it is good and free of cost website. This website offers and sends link to student's emails for job and business purposes. This website provides Job according to student's performance.

3.9 OpenLearn: OpenLearn isdesigned to give users free access to educational materials from The Open University, which originally launched back in the 90s as a way to offer online learning in broadcast collaborations with the BBC. Today, OpenLearnoffersboth topical and interactive content in a variety of content formats, including courses.Find all ofOpenLearn's free courses here. You can filter these courses by activity, format (audio or video), subject and more options. All courses are listed with their level (introductory, intermediate, etc.) and time length to give you an idea of what you can expect.

Top online courses list by OpenLearn:
Table no. 3.9.1
These all courses are available from The Open University:

Sr. No.	course name	pdf file/language	video lect.	price	enrolled students	ratings
1.	Beginners' Chinese	yes/English, Chinese	yes	free	--	3.8
2.	Technology, innovati	yes/English	yes	free	--	5.0
	on and management					
3.	Beginners' French: food and drink	yes/English and French	yes	free		3.5
4.	Essay and report writing skills	yes/English	yes	free	--	3.9
5.	Forensic psychology	yes/English	yes	free	--	4.5
6.	Energy resources: Solar energy	yes/English	yes	free	--	4.7
7.	Numbers, units and arithmetic	yes/English	yes	free	--	4.7
8.	What is politics	yes/English	yes	free	--	4.7
9.	Spanish: espacios públicos	yes/English, Spanish	yes	free	--	2.2
10.	Succeed in the work place	yes/English	yes	free	--	3.9

According to me, OpenLearn is a website who conducts all courses from The Open University. This site of courses is not professionally. There are basically courses,which provide basic knowledge that's why these are free of cost. For basic knowledge, we can choose this site for learning purpose.

3.10 FutureLearn: FutureLearn is part of The Open University and is another alternative on this list that offers course programs from leading education institutions and

organization partners. Courses are delivered a step at a time and can be learned at your own pace while accessed from a desktop or mobile device.One of the real benefits of FutureLearn is its commitment to social learning, giving its students the opportunity to engage in discussions with others throughout the course. FutureLearn also offers full programs, which contain several courses in them for more extensive learning.

Top online courses list by FutureLearn:
Table no. 3.10.1

Sr. No.	course	pdf file/ language	video lect.	price	enrolled students	ratings
1.	Sino-Japanese Interactions Through Rare Books	yes/ Chinese, Japanese and English	yes	free and upgrade with $54	--	4.2
2.	Big Data: Data Visualization	yes/English	yes	free and upgrade with $69	--	4.4
3.	Introduction to Health Technology Assessment by University of Glasgows	yes/ English	yes	free and upgrade with $69	--	4.6
4.	Modern Building Design	yes/English	yes	free and upgrade with $69	--	4.1
	by University of Bath					
5.	What Is a Mind by University of Cape Town	yes/English	yes	free and upgrade with $49	--	3.5
6.	Online Business: Planning for Success by RMIT University	yes/English	yes	free and upgrade with $49	--	4.7
7.	Law for Non-Lawyers: Introduction to Law by MONASH University	yes/English	yes	free and upgrade with $84	--	4.8
8.	Information Technology by Deakin University	yes/English	yes	AU$3,285	--	4.9
9.	Cyber Security by Deakin University	yes/English	yes	AU$3,285	--	4.7
10.	Property and Real Estate	yes/ English	yes	AU$3,285	--	4.3

by Deakin University					

According to me, FutureLeran is a good website for learning. This website provides very costly courses by world's universities. All courses provided by this website are unique and professionally. Information Technology, Big Data and Law for non Lawyers these are the best courses.

3.3 Art & Humanities: -

Top websites of Art and Humanities:

> **3.3.1 Class Central:** It is a free online course otherwise known as MOOC aggregator from top colleges like Stanford, MIT, Harvard, and so forth.This has a large variety of courses. This website provides 1000 plus online courses of Art & Design and Humanities.

Strengths:
- All type of courses and information is available here.
- Videos lectures are very useful for online learning.
- Discussion queries solved many doubtful questions.

Weaknesses:
- The website all courses are not free. You must pay to access certain content.
- Weak students did not understand these courses quickly because video lectures are fast to teach.

> **3.3.2 Coursera:** has the biggest assortment of courses. They likewise give the freest or minimal effort alternatives, including offering money related guide. They have self-managed courses, courses on-request, and coordinated classes. The classes often extend near four and twelve weeks. Most of the courses on Coursera are free, and some require a little charge to take an interest in testament projects and specializations, or a grouping of classes that incorporate a capstone venture. These endorsements can likewise be shared on LinkedIn.

Strengths:

- 100% on the web and learning in a hurry with iOS and Android applications
- Testaments featuring new abilities and accomplishments
- Video addresses from widely acclaimed teachers
- Moment input and auto-reviewed assignments

Weaknesses:
- Not completely free: even though there are still many free courses on Coursera, most of the high-demand courses are now "audit-only": a mode where non-payers don't have access to graded assessments.
- Quizzes are too lenient: quizzes have unlimited trials. Basically, this tempts people to trial and error to get the quiz answer right, instead of working through it properly. Thus, skill validation is quite doubtful.

> **3.3.3 SWAYAM:** It is a machine for self-realization giving chances to a deep-rooted learning. Here student can browse several courses, for all intents and purposes each course that is educated at the college/school/school level and these might be offered by best of the instructors in India and somewhere else. On the off chance that an understudy is considering in any school, he/she

can exchange the credits earned by taking these courses into their scholastic record. On the off chance that you are, working or not working, in school or out of school, SWAYAM presents an exceptional instructive chance to extend the skylines of information. All courses would be offered free of cost under this program however charges would be imposed on the off chance that student requires a testament. It is an Indian site. This site gives 6 courses of Art and Humanities.

Strengths:
- ➢ It provides high-level knowledgeable courses.
- ➢ All courses are free of cost.

Weaknesses:
- ➢ There are few courses under this website; all type of science courses is not available.

3.3.4 **Udemy**: Udemy is an awesome way to learn new skills and experience new things in general, and it can become quite fun and even addicting - but in a good way. There are many eLearning websites that offer these courses. You can find courses on all kind of subject'se.g. Management, Leadership, Digital Marketing, Photography, Mathematics, Meditation, Programming, etc.

Strengths:
- ➢ There are courses from multiple authors so you can choose the best one.
- ➢ Many courses are offered free of cost.
- ➢ All the paid courses are reasonably priced.
- ➢ Udemy provides lifetime access to all its courses.
- ➢ You can download the videos and learn on the go by using their mobile app.

Weaknesses:

- ➢ Udemy courses are not a substitute for school training.
- ➢ Educators don't need to be qualified specialists to make a course.
- ➢ The teacher's showing style, voice, and so on may not work for you.
- ➢ The colossal costs are not very good when you need to take many courses (You may show signs of improvement bargain by paying more at one time for programs somewhere else).

3.4 Business & Management:

Top websites for Business and Management:

3.4.1 **Coursera:**Coursera has the biggest assortment of courses. They additionally give the freest or minimal effort choices, including offering money related guide. They have self-guided courses, courses on-request, and coordinated classes. The classes normally extend near four and twelve weeks. Most of the courses on Coursera are free, and some require a little expense to take an interest in declaration projects and specializations, or a grouping of classes that incorporate a capstone venture. These authentications can likewise be shared on LinkedIn.

Strengths:

- ➢ 100% on the web and learning in a hurry with iOS and Android applications.
- ➢ Endorsements featuring new aptitudes and accomplishments.
- ➢ Video addresses from incredibly famous educators.
- ➢ Moment criticism and auto-evaluated assignments.

Weaknesses:
- ➢ Not completely free: even though there are still many free courses on Coursera, most of the high-demand courses are now "audit-only": a mode where non-payers don't have access to graded assessments.
- ➢ Quizzes are too lenient: quizzes have unlimited trials. Basically, this tempts people to trial and error to get the quiz answer right, instead of working through it properly. Thus, skill validation is quite doubtful.

3.4.2 EdX: EdX has an expansive scope of advanced education courses with many falling in the sciences. One essential element is their self-managed and coordinated classes. Meaning, if you are occupied constantly, you can experience these courses at your pace. The classes for the most part go near four and twelve weeks, and each course has its video transcript. EdX utilizes cool apparatuses like recordings and gamified labs and different things like 3D virtual particle developer. The stage is open source, which empowers designers to manufacture and offer appraisal modules. EdX at present selects a few million understudies. The organization is a philanthropic;however it utilizes the commitment to give quality training to everybody.

Strengths:
- ➢ Free: enough said. Although they don't provide the free certificate anymore, still having free access to course materials is a huge deal, and should be appreciated.
- ➢ Quizzes are very rigorous, and strict, this makes learning from edX courses more serious

Weaknesses:
- ➢ Their catalogue isn't very diverse, heavily favoring tech courses.
- ➢ Their discussion forum is completely user-unfriendly.
- ➢ Some good courses, you must wait a quarter or half a year for them to start.

3.4.3 Udacity: Udacity has a huge scope of classes, particularly in programming and software engineering. Be that as it may, contrasted with another stage it had less number of courses. Their paid projects incorporate instructing, input, and confirmed declarations. Udacity accomplices with colleges to make courses that are credited and furthermore have programs called Nano degrees. These Nano degree courses are made toward the work needs of their corporate accomplices like Google, Facebook, AT&T, and others.

Strengths:
- ➢ Personal feedbacks, a strong focus on career development. They are the only one offering career services.

Weaknesses:
- ➢ No guarantee for scholarship tuition fees back.

3.4.4 OpenCulture: A huge repository for free learning resources including textbooks, courses, video lessons and much more. This website provides 150 business and management courses.

Strengths:
- ➢ Totally free of cost courses are offered.
- ➢ This provides user-friendly links.

Weaknesses:
- ➢ Should be good connectivity of the internet.
- ➢ Many ads are shown on the site.

3.4.5 Alison: ALISON is a free, online stage for singular students to learn abilities at an ensured,

models based level. They offer more than 300 courses to browse, extending from IT to Business Management to English Language Skills to Personal Development courses. The courses they offer can every single individual student, while an ostensible expense is charged for ALISON Manager, which enables an organization to shape and screen a gathering of students. ALISON can give their courses to free because of promotions that create income for both ALISON and the organization that has set the commercial.

Strengths:

➢ ALISON is free online courses are certainly justified regardless of the time you put into them.

➢ It could support your vocation and give extra believability to your aptitudes and capacities.

Weaknesses:

➢ ALISON is free online course framework is that it is not official by any means.

➢ I have found is the Certificates and Diplomas cost cash. This cost is per endorsement, so taking many courses and gaining many testaments can be very exorbitant.

3.5 Computer & Engineering:

Top websites for Computer Science and Engineering:

3.5.1 **Stanford Engineering Everywhere**: Stanford Engineering Everywhere is a free resource designed to provide students across the U.S. with access to some of the courses and tools used by Stanford undergraduates to master the basics of computing, artificial intelligence and electrical engineering. These materials are also available to educators for use in classroom settings and are covered under a Creative Commons license that ensures they are freely accessible to anyone with a computer and an Internet connection. Available courses include programming methodology, abstractions and paradigms, machine learning, introduction to robotics, convex optimization and an introduction to linear dynamical systems.

Strengths:

➢ Stanford's goal is "qualifying its students for personal success, and direct usefulness in life".

➢ There is a long practical video session.

Weaknesses:

➢ Enrollment fees are high.

➢ If we want certified course then for that certificate the website collects extra charges.

3.5.2 **MITOpenCourseWare**: The Massachusetts Institute of Technology gives free online access to teaching materials for nearly all of its courses, allowing students and teachers to enjoy unrestricted access to these resources. General categories represented on the MIT OpenCourseWare website include mechanical engineering, mathematics, electrical engineering and computer science, economics, management and liberal arts. These resources can provide real support for students across a wide range of disciplines. Because MIT is primarily known for its science, technology and engineering courses, however, these online course materials can be especially important for students pursuing careers as computer scientists and software engineers.

Strengths:

➢ The materials on the OCW site will be open and unreservedly accessible worldwide for non-business purposes, for example, research and training, giving a remarkable asset, for nothing out of pocket.

Weaknesses:

➢ Their videos are not downable, if we want to download videos audios then have to pay charges.

3.5.3 **edX**:EdX has an expansive scope of advanced education courses with many falling in the sciences. One pivotal component is their self-guided and coordinated classes. Meaning, on the off chance that you are occupied constantly, you can experience these courses at your pace. The classes normally extend in the vicinity of four and twelve weeks, and each course has its video transcript. EdX utilizes cool instruments like recordings and gamified labs and different things like 3D virtual atom developer. The stage is open source, which empowers designers to assemble and share appraisal modules. EdX as of now selects a few million understudies. The organization is a not-for-profit;however it utilizes the commitment to give quality instruction to everybody.

Strengths:

➢ Free: enough said. Although they don't provide the free certificate anymore, still having free access to course materials is a huge deal, and should be appreciated.

➢ Quizzes are very rigorous, and strict, this makes learning from edX courses more serious

Weaknesses:

➢ Their catalogue isn't very diverse, heavily favoring tech courses.

➢ Their discussion forum is completely user-unfriendly.

➢ Some good courses, you must wait a quarter or half a year for them to start.

3.5.4 **W3Schools**: w3schools.com offers easy-to-understand examples and in-depth tutorials on AJAX, SQL, ASP, CSS, JavaScript and HTML markup code. This diverse range of educational materials ensures that students at all levels of proficiency can obtain the information needed to complete their projects and to achieve success in their chosen profession. The w3schools website offers intuitive navigation that allows advanced users to focus on their own particular areas of interest while ensuring that novices can quickly access the information they need to complete their design projects and achieve their short-term and long-term computing goals.

Strengths:

➢ Best programming examples.

➢ Complete knowledgeable computer programming and courses.

Weaknesses:

➢ It provides just computer related courses.

3.5.5 **NPTEL**:NPTEL gives online courseware as web courses and video addresses. These addresses use a huge number of offices of the video medium, for example, chalk-and-talk, tablet composing, control point, two and three-dimensional activities, intuitive codes, and so on. Each course includes roughly 40 video addresses of around 1-hour span.

An online dialog gathering is joined wherein understudies can post and survey questions. Wherever relevant, course assignments, gifts, self-assessment errands, and soon have been coordinated. Workshops are routinely led for foundations, understudies, tutors, and so on under the support of NPTEL.

Strengths:
➢ All video addresses are novel and effectively download.
➢ NPTEL gives E-learning through online Web and Video courses in Engineering, Science and humanities streams. The mission of NPTEL is to upgrade the nature of Engineering training in the nation by giving free online courseware.

Weaknesses:
➢ They give difficult assignments.
➢ Discussion form is very difficult.

3.6 Language Learning:

Top Learning Languages websites:

3.6.1   The   Chairman's   Bao: The Chairman's Bao is an online, interactive newspaper in Mandarin Chinese. This site is updated daily and there are articles that are appropriate for elementary to advanced learners. You can toggle between simplified and traditional characters, and if you highlight a character or word, the definition and pinyin will appear to the right of the text. This site provides all courses of Chinese language. This is an official site of Mandarin Chinese language. This site is solution provider of language education delivering a high-quality reading, learning, and teaching materials through news-based lessons, catering to the

needs of individuals and academic institutions alike.

Strengths:
➢ The most efficient website for the Chinese language.
➢ Provides daily news updates, videos and pdf files.
➢ It provides a native speaker for learning languages.
➢ Wide website provides all type of Chinese courses

Weaknesses:
➢ The live dictionary does not recognize.
➢ The subscription model is not easy.
➢ Some contents are difficult to understand.

3.6.2   FlentU: Language drenching is the way to taking in a remote dialect. FluentU breathes life into dialect learning through dialect submersion with genuine recordings.This website provides Chinese, Spanish, French, English, German, Japanese, Italian, Korean, Russian and Portuguese. It provides many videos and audio lectures. It provides all languages courses.

Strengths:
➢ We can learn many numbers of languages.
➢ A good way to learn through short videos.
➢ Easy to understand with different courses.

Weaknesses:
➢ Some trials are free but when we start to subscription it shows fees $8 for a free trial.
➢ No structure: Don't anticipate that there will be an arrangement or some likeness thereof. The recordings present new words, yet the recordings don't take after each other or expand on each other.
➢ Errors in examples.

3.6.3   My Language Exchange: This site offers 115 unique languages for individuals who need to take in an outside dialect. It essentially has online dialect trade hone. It gives content visit rooms, voice

talk rooms, lesson designs, lexicons, a release board, and a club library, and even permits internet recording of slang and different articulations. It is an easy to understand and non-threatening site that empowers making companions while a man likewise attempts to take in a moment dialect. It offers recommendations to the client relying upon his or her learning level. It offers content visit for all tenderfoots, a possibility for content or voice talk for middle students, and a prescribed voice talk for every single propelled student.

Strengths:
➢ All type of languages is available here.
➢ This website 57% working good.
➢ It provides all type of courses videos, audios, pdf notes, which are downable

Weaknesses:
➢ Lack of security
➢ It sends fake emails till we did not pay subscription fees.

3.6.4 Internet Polyglot: This site is totally free. It offers an assortment of decisions for the remote dialect that a man could possibly learn. It is planned such that a student is helped with retaining words and what these words mean. It trusts that learning is best encouraged when a student's maintenance is guaranteed. It gives 101 learning languages; 37 languages are free of cost.

Strengths:
➢ Helps in memory to grasp more information.
➢ Free of cost to learn each language.

➢ Good vocabulary practice if you have an unlimited data connection or wifi.

Weaknesses:
➢ Should be available high-speed data.
➢ There are free audio files but has no option to pause and repeat the sentence

3.6.5 Word2word: Word2word offers a free and minimal effort approach to taking in a remote language. The website invites you with a few decisions in the matter of how you need to continue with your learning. It gives the student an assortment of alternatives going from online lexicons and interpreters, free online language courses, free recordings, gathering, genuine sound language stations, free language programming, meetups, and 50 different help works in more than 200 languages.

Strengths:
➢ Available all type language knowledge.
➢ Free of cost languages courses are available.

Weaknesses:
➢ Quite difficult to understand
➢ Complexwebsite.

3.7 Math & Logic

Top websites for Mathematics and Logic:

3.7.1 Coursera:Coursera has the biggest assortment of courses. They additionally give the freest or minimal effort alternatives, including offering budgetary guide. They have self-managed courses, courses on-request, and planned classes. The classes for the most part go near four and twelve weeks. The greater part of the courses on Courses are free, and some require a little expense to take an interest in declaration projects and specializations, or an arrangement of classes that incorporate a capstone venture. These authentications can

likewise be shared on LinkedIn. Coursera gives 75 Math and Logic courses. These courses are proficient.

Strengths:
- 100% on the web and learning in a hurry with iOS and Android applications
- Declarations featuring new aptitudes and accomplishments
- Video addresses from widely acclaimed educators
- Moment input and auto-evaluated assignments

Weaknesses:
- Not completely free: even though there are still many free courses on Coursera, most of the high-demand courses are now "audit-only": a mode where non-payers don't have access to graded assessments.
- Quizzes are too lenient: quizzes have unlimited trials. Basically, this tempts people to trial and error to get the quiz answer right, instead of working through it properly. Thus, skill validation is quite doubtful.

3.7.2 **Class Central**: Class Central is a free online course aka MOOC aggregator from top universities like Stanford, MIT, Harvard, etc. This has a large variety of courses. This website provides 262 online courses of Mathematics and Logic.

Strengths:
- All type of courses and information is available here.
- Videos lectures are very useful for online learning.
- Discussion queries solved many doubtful questions.

Weaknesses:
- The website all courses are not free. You must pay to access certain content.
- Weak students did not understand these courses quickly because video lectures are so fast, and unable to understand.

3.7.3 **SWAYAM** is a website for self-completion giving chances to a deep-rooted learning. Here student can look over several courses, for all intents and purposes each course that is educated at the college/school/school level and these might be offered by best of the instructors in India and somewhere else. On the off chance that an understudy is contemplating in any school, he/she can exchange the credits earned by taking these courses into their scholarly record. If you are, working or not working, in school or out of school, SWAYAM presents a novel instructive chance to grow the skylines of learning. All courses would be offered free of cost under this program however charges would be exacted if student requires a declaration. It is an Indian site. This site gives 5 Mathematics courses.

Strengths:
- It provides high-level knowledgeable courses.
- All courses are free of cost.

Weaknesses:
- There are few courses under this website; all type of science courses is not available.

3.7.4 **Math.com**: Math.com is committed to giving progressive approaches to understudies, guardians, educators, and everybody to learn math. Joining instructively solid standards with restrictive innovation, Math.com offers a one of a kind affair that rapidly controls the client to the arrangements they require and the items they need. These arrangements incorporate evaluation, on-request secluded courses that objective key math ideas, all day, every day live web based coaching, and master answers to math questions.

Notwithstanding arrangements, Math.com offers exploratory and recreational acquaintances with the universe of math that will prompt further understanding and delight. The scope of administrations, items and arrangements offered makes Math.com the single hotspot for all math needs.

Strengths:
- All basic knowledge courses are available.
- The website provides formulas and tables.

Weaknesses:
- Professional courses are not available.
- 3.7.5 **Math TV**: Math TV is a platform that features a wide range of math videos covering a plethora of mathematical concepts. These videos are browsable via topic or by the textbook.

Strengths:
- All videos of maths are updated daily.
- Easily we can collect notes from the website.

Weaknesses:
- Some courses are very costly.

3.8 Science:

Top Websites for Science:
- 3.8.1 **ScienceStage.com** is an online entrance for the propelled educating of science and logical research. They give a virtual gathering room, address lobby, research facility, library, and a meeting setting for the introduction and exchange of logical learning. The website empowers researchers, instructors, scholastics, understudies, and experts of different kinds to present and offer logical information using spilling sound and video, content records and great group

capacities, for example, talk, email, and online journals.

Strengths:
- Good material of science and research is available.
- Help to gain all depth knowledge of science.

Weaknesses:
- I have found no weak point in this website.

- 3.8.2 **American Association for the Advancement of Science (AAAS)**:The American Association for the Advancement of Science is a worldwide non-benefit association committed to propelling science for the advantage surprisingly. This is a universal, proficient, non-benefit association devoted to the progression of science, designing, and development all through the world for the advantage surprisingly. Their objectives incorporate improving correspondence among researchers, engineers, and people in general, fortifying and differentiating the science and innovation workforce, advancing and safeguarding the respectability of science and its utilization, and cultivating instruction in science and innovation for everybody.

Strengths:
- Enhance communication among scientists, engineers, and the public.
- Promote and defend the integrity of science and its use.
- Strengthen support for the science and technology enterprise.
- Provide a voice for science on societal issues.
- Promote the responsible use of science in public policy.

Weaknesses:
- It doesn't provide easily enrollment in science courses.

> ➢ It has very difficult research and tasks; which are not easily understandable.

3.8.3   SWAYAM is a website for self-completion giving chances to a deep-rooted learning. Here student can look over several courses, for all intents and purposes each course that is educated at the college/school/school level and these might be offered by best of the instructors in India and somewhere else. On the off chance that an understudy is contemplating in any school, he/she can exchange the credits earned by taking these courses into their scholarly record. If you are, working or not working, in school or out of school, SWAYAM presents a novel instructive chance to grow the skylines of learning. All courses would be offered free of cost under this program however charges would be exacted if student requires a declaration. It is an Indian site. This site gives 5 Mathematics courses.

Strengths:
> ➢ It provides high-level knowledgeable courses.
> ➢ All courses are free of cost.

Weaknesses:
> ➢ There are few courses under this website; all type of science courses is not available.

3.8.4   Coursera:Coursera has the biggest assortment of courses. They additionally give the freest or minimal effort alternatives, including offering budgetary guide. They have self-managed courses, courses on-request, and planned classes. The classes for the most part go near four and twelve weeks. The greater part of the courses on Courses are free, and some require a little expense to take an interest in declaration projects and specializations, or an arrangement of classes that incorporate a capstone venture. These authentications can likewise be shared on LinkedIn. Coursera gives 75 Math and Logic courses. These courses are proficient.

Strengths:
> ➢ 100% on the web and learning in a hurry with iOS and Android applications
> ➢ Declarations featuring new aptitudes and accomplishments
> ➢ Video addresses from widely acclaimed educators
> ➢ Moment input and auto-evaluated assignments

Weaknesses:
> ➢ Not completely free: even though there are still many free courses on Coursera, most of the high-demand courses are now "audit-only": a mode where non-payers don't have access to graded assessments.
> ➢ Quizzes are too lenient: quizzes have unlimited trials. Basically, this tempts people to trial and error to get the quiz answer right, instead of working through it properly. Thus, skill validation is quite doubtful.

3.8.5   Proceedings of the National Academy of Sciences (PNAS) of the USA: PNAS distributes forefront look into reports, analyses, audits, viewpoints, colloquium papers, and activities of the Academy that cover the natural, physical, and sociologies. The site contains the full content, figures, tables, conditions, and references of all articles in PNAS going back to 1990. PNAS is accessible by membership week after week in print and every day online before the printed form in the PNAS Early Edition. This is a tremendous and best site for science students.

Strengths:
➢ All science courses are available here.
➢ Daily science updated news and data available here.

Weaknesses:
➢ Complex and not easy to understand for everyone.

4 ANALYSIS OF ONLINE COURSES

There are many websites which provide Certification courses for Art and Humanities, Business and Management, Computer and Engineering, Learning Languages, Math and Logic, Science and all of them are Online. Top websites like Coursera, Central-class, edX, Harvard University, MIT University and Stanford University are the best ones currently giving you wide variety of Certification courses with easy access through the online portal.

There has been a significant increase in the demand for Data Scientist, Learning Languages, and much more with a large amount of Data (useful and waste) is getting piled up every day causing more distraction in the IT industry. So, if you're looking for courses which will result in High paid jobs, there are few courses which you can opt for:-

Art & Humanities: Class Centralis a free online course otherwise known as MOOC aggregator from top colleges like Stanford, MIT, Harvard, and so forth. This has a large variety of courses. This website provides 1000 plus online courses of Art & Design and Humanities.Coursera has the biggest assortment of courses.Most of the courses on Coursera are free, and some require a little charge to take an interest in testament projects.

Business & Management: EdX has an expansive scope of advanced education courses with many falling in the sciences.

OpenCulture has a huge repository for free learning resources including textbooks, courses, video lessons and much more. This website provides 150 business and management courses.

Computer & Engineering: Stanford Engineering Everywhere is a free resource designed to provide students across the U.S. with access to some of the courses and tools used by Stanford undergraduates to master the basics of computing, artificial intelligence and electrical engineering.

The Massachusetts Institute of Technology is primarily known for its science, technology and engineering courses, however, these online course materials can be especially important for students pursuing careers as computer scientists and software engineers.

NPTEL gives online courseware as web courses and video addresses.

Learning language: My Language Exchangeoffers 115 unique languages for individuals who need to take in an outside dialect. It essentially has online dialect trade hone. It gives content visit rooms, voice talk rooms, lesson designs, lexicons, a release board, and a club library, and even permits internet recording of slang and different articulations.

Internet Polyglot is totally free. It gives 101 learning languages; 37 languages are free of cost. It is good site for language learners.

Word2word website invites you with a few decisions in the matter of how you need to continue with your learning. It gives the student to free online language courses, free recordings, gathering, genuine sound language stations, free language programming, and 50 different help works in more than 200 languages.

Math & Logic Math.com is focused on giving dynamic ways to deal with understudies, parents, instructors, and everyone to learn math.

Math TV is a stage that highlights an extensive variety of math recordings covering a plenty of numerical ideas. These recordings are browsable through theme or by the course book.

Science: ScienceStage.com is an online portal for the advanced teaching of science and scientific research.The site enables the scientists, lecturers, academics, students, and practitioners of all types to present and share scientific knowledge.The American Association for the Advancement of Science is a universal non-benefit association. The objective of AAAS incorporates upgrading correspondence among researchers, engineers, and general society, fortifying and expanding the science and innovation workforce.

It is also important for you to check as to which Certification will boost up your qualificationsbecause only a good Course can land

you aHigh-paid job and the demand for online courses is increasing rapidly.

5   CONCLUSIONS

Online learning is a growing and exciting new way to learn about almost anything. If there is a course you have always wanted to take or a skill you have always wanted to learn, but you have not had the time to attend a traditional face-to-face class or there hasn't been an opportunity near you, then online learning might be your answer.

The present web based taking in circumstances offer everything from one-hour live workshops to online degrees. There is practically something for everybody; you should simply discover it.

In any case, taking in online is unique in relation to learning in an up close and personal setting, and it is critical to consider your objectives, your necessities and your interests previously submitting yourself to something.You also need to think about the time you have available, your comfort level with using technology and the equipment that is at your disposal. As we all become more familiar with computers and computer access becomes increasingly common, online learning will continue to open doors and offer learning opportunities for those who are interested.

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