The MOOC is in session

Online instruction is helping Indians open career doors

w n.2015, Ur Balesh Jimed signed up on Coursers for the first-tweer MODC (massive, open, online engrise) on notial psychology of fired by Wesleyan University She felt may application of the principles to her practice would help her engage more effectively with her certain.

effectively with her patients. The 56-year-old Delhi resident was among 250,000 participants. Turned out her final essay, based on her outreach to girls in a neighbourhood government school, showing them how to identify and report sexual violence, was voted best of all. She was invited to Stanford Univer-

sity for three days to be awarded a cer-tificate and meet the Dalai Lama, who was visiting the campus. Her stay and travel were sponsored by Stanford, where De Jindal not only mer the monk. but also eminent academics, including nother and psychologist Philip Zim-bardo, who ran the famous Stanford Prison Experiment in 1971. Dr Jindal who says the experience virtually changed her life, plans to switch careers to counselling, a decision grivu-nized by that first MOOC. "Though I

Many companies that hire for technical roles, Google for example, have started listing open online courses from Coursera as recommended job qualifications

warned to pursue-a-8465 MOXC on business analytics by the Wharton School, her employee, Debts starting Kövers'kle Gleen'de to capt up 20% of the fee.

COO Priyanika Kharma says they wait the encourage constitued bursting. There are so many career specializations for which worker have the necessary educational infrustructure in this, and MOOCs fill the got; "she says. Surrings aboperhaps identify with self statess in the company who commit themselves to professional improvement. Units Shampari, a serial outerpresent without not many contributions of the starting of the

grevement. Vivels Shangari, a serial contrappreneur with a running fibe shird enterprise AceHacker, a coding boot comp, lacks a college obtuneton but is armed with MOOC degrees in technology and management. For me critical courses were the only option," says Shangari, who has made it mandatory in after some property of the course were year. It can be anything, a new coding langmage or portry but coursewery year. It can locary raing, a new coding lengrage or poetry but it's a must and 5% of the appraisal is tied to the employee's performance in the online course," says Shangari. These's also a soundproof cabin in the office where his employees can take lessons for an hour every day without note cabin distribution in the office where his employees can take lessons for an hour every day without note cabin distribution.

work related interruptions. Even NPTEL (National Pro-Even NPPEL (National Pro-gramme on Technology Enhanced Learning), the online campus immedial jointly by the IPS and IISc last your, has been trying to set itself up as an accredition fronte to jobs, a spokespeann said they're in talks with IT majore unsance that students with haw NPPEL (certification get short-listed by companies during re-cruitment and internologic finefulning internalips at the IPS themsofrees. Backed by AASSCOM, NPPEL largely uttracts students of engineer-ing, other how the dainy colleges that may not offer the sect of electives pre-



couldn't pursue my dream of studying in an American university, the MOOC brought world class lectures into my

brought wield dass lectures into my living roam, 'she age.

As course providers like eds.'
Coursers and others look to ofter more rigorous, contilicate programmes, university-compatible credits, and specializations tailored for industry. Indians are beginning to see not just lanowisedge, but better career prospects in MOOCs. In Coursea's first-ever-serror camerus earney in September. in blocks, in Consects in the war learner cutome survey in September, it emerged that 55% of the 2,874 Indian online learners potied were looking for career building benefits, while 37% assight to further their education.

Coursers has about 1.2 million to dian registrants, "Our learners may not have the option to structure their lives around their education, but rather peed the flexibility to mould their education around the constraints of their life," says Daphne Koller, Stantheir tife," says Dayline Koller, Stam-ford perfessor and ease of the columni-ors, along with Analyse Ng, of Course-ra. "New technology platforms and greater acceptance of unline corelif-cates by employers are allowing these people to transform their covers," also adds, Google, for use, has started list-ing courses from Coursers as recuss-mended qualifications for a job. And through their control collaboration.

And it's not surgished Goliaths that see recruitment value in MOOCs. When a 25-year-old senior manager

minum institutions do. At the National Engineering College in Royflgetti. Thrill Nath, nearly all the third and firal year students of six lengthseeting took the July course on modern construction material, an elective their college dishri office. Additionally for a Tamil-openham engineering student in Rumonol or Timunelvell, it offers a pure opportunity to be costfied in a subject that improves corner prospects in the unity of the costfied in a subject that improves corner prospects in the unity of the control of the control

And finally subtitles and brain-script. "In rural parts, filels watch Heliywood movies dubbed to local languages," points out an NPTKL moderator. "So to help-students better understand the courses, we plant to subtitle the lectures and provide tran-scripts to as many Indian languages as possible."



BETWEEN **HIGH TECH** & NO TECH

Those in govt schools may not tote smartphones and iPads, but a few non-profits are trying to bridge the digital learning gap

1's 7.40pm on a cold November esenting in Bengalaru. Lights are on in just one room of a government esenting in Bengalaru. Lights are on in just one room of a government school of November of States and the minutes of the lights go out and kids walk out of a robotics lot, rather out of place in a government school battling for funds to build to-less. But this lab has changed the lowe of the children. A year ago they couldn't handle enjoulances, today they win robotics competitions, an enricible achievement even for posh private schools.

"There's an endounters who

they win robotics competitions, are raisable achievement even for posh private schools.

"There's an advantage when you bring interesting things to children. They tend to work better; asya P Srid-lar, who quit a well-paying engineering job last year to roach and mentor the children in the school. They no larger use role to advance professor, can use maths to calculate the distance robots need to true, or the thickness for a normand to be executed. Their briest achievement is enabled to the true control of the two colors in the late exchange commands using fillnetooth.

The Indian education sector is quickly adapting to be christopy flores that 400 educational technique for the sound of the control of t

ments have certainly enabled a int of things into norchwile earlier Today, our experience shows, insuring and tooch ing can become narre democratic, tak-ing teachers to attalents, or allowing the latter to pitch to fermer." says varied Krisbau, CEO & co founder of Vedantu, a live online tutoring plat-form which ness technology to bring together teachers and students. But he also seeks of the need for

form which uses technology to bring together tunchers and stantens.

But he also speaks of the need for a government policy frame work to be espedited to make the same available for those who cannot afford these, such as government schools.

However, in the absonce of such a policy, private and son-government initiatives are brying to extend these technologies to government schools. US based free online tuterial provider, Salman Khan's epocymous academy for one, intends to trifer tuterials in the NCERT corriculum; all major indice languages.

Srither's retorious his in funded by Akshara Foundarion, which has also tied up with the government to teach maths to primary schools, Brengalurubased internationals school, inventures Academy a vocantly brought the Khan Academy avocantly brought the Khan

mants to prantery schools. Bengaturo-based international school, inventures. Academic vocardly brought the Khan-Academic vocardly brought the Khan-dopensel i up to students of government schools in the hope that it could enable them to learn independently. Stys IIIT-8 itunder director Prof S. Sadapopan: "In countries like the US, the government took the lead and put in place infra-structure key for such initiatives. There is a enough scape for India todu the aams, etcospt that there may be a lack of will. A lat of projects get anprojects get an-nounced but no-

takes the learning station, a computer, to the playground and encourages children to explore and learn imart class rooms, nothre touching programmes, teacher ovaluation, inschool learning, sharing through thibles or laptops and personalized situational content—are thriving mainly in the private sector or the more autonomous higher education actions to the ITPs and IMs.

As India's education system creis up the technology baider, it will be stories that Wedenagar that will nation of the ITPs and Ims.

OM: Hole-in-The-Wall Education Limited

Dearn He adds that even educational institutes in iter II and III differs and willinges can besoft from this technology. Education, considered a pioneer in the Held, has also had seiter progress in getting involved with poverument schools. But several hardless have emerged such as poor interest preservation and low insternet speeds, beauties the lack of infrastruture. If these are not fixed, the great handless characteristic from the control of the process of the control of the con

School textbooks go the iTunes way

cation is dirching the one-st

ducation is diriching the one-sizefits all model in favour of customination, a fact Mark Zuckerberg
undernored in his open letter to
his daughter, in which he wrote: "Our generation grew up in classrooms where we
all itearned the same things at the same
pace., "Nor! I have technology that understands have you learn best and where you
need to focus." Infails is all ears and hes
shready put word to action.

While settline tuitine pertake allow statudents to cherry-pick teachers at attractive
raise, some portain on servicing stalents
with individual chapters from reference
books. For example Pastinderst, as esh-sech
aggregate, offers separate chapters on, say
chemical stireties or rotational motions.

For IT-IDE exams the Pastinderst, as sub-sech
aggregated, offers separate chapters on, say
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order to students of government schools,
who can download content, chapter by
chapter For mov, the school cylind for Made

hya Pradesh and Mahamshitra state boards is awaliable for download. The app, that will have guid content too, has ore 1,000 downloads on Google Play to far. "As of new eliasts has 601 ebooks in English. Hindi and 10 vernacular languages." asys Ir M Sasiliansar, associate director at the Mumbal office of the Centre for Development of Advanced Computing, which has developed effants.

In another ocraes, scalerus intensists in vocational skills can pursue them on the naw NETTs, an internet YV pertial that of first 90 courses in IT, banking, finance, remail and measurement.

In addition to personalizing education, an online marketplace is also allows students easy access to the latest edition of texthooks. "This is were relevant in schay's times when school and college carricula undergo frequent charge. Extinct, students who studied from hand-needown books or those between them the library, missed out on updated content," points out Khama. Once of the biggest publishers of textbooks in India, S Chand, will next week. Inanch in new mobile app that will silve students to download chapter aumraries. "It will be a supplementary tool to help them screamline their properation," ergs Gauraw Jhumphannela, director, S Chand Group, The publishing house of present has a catalogue of around 200 e-books, without are seld on various eretail sites at prices 15% in 20% less than the printed versions.



The internet puts coaching centres to the test

The India, one out of four students takes private builties, according to the latest RSSO data. A 2013 ASSO CHANN survey valued the Indian caching industry at 8 st. 15 lank cross. Clearly, if technology is transforming ethication, it cannot typose the parallel ethication eyetem. Geetaquin Rhanna, COO of edutoch aggregator Fastudori, says that chartered accordances (CA) buseon the biggest shift from efflire to cultion cancillage. Most aspirants are buy CA liceture sets cultine in the price-range of Rs 70 to 8 to 100 per set," says Rhanna, adding that numbers will only rise as stindents are increasingly strapped by time. "Tweed time has increased, making play-boal interdance at concluing centres difficult. Also, widelent are purying many n India, one out of four students cult. Also, students are pursuing many co-curricular activities in addition to academics. All these factors make online tui-tion more appealing," says Khanna. Askush, a leading brand in conclusing for medical and engineering entrance,

Web and mobile-based coaching apps are a boon for those who live in smaller towns and can't afford to move to big tuition hubs

platform where students can attend line instructor led classrooms from anywhere. The online tool offers course schedules. asynchronous discussion sessions, into-grated cloud storage for content and ac-

grases coost sacrage for coment and ac-cess to class recerdings.

Then there are websites that train smi-dents to erack competitive exams with salice-smale solutions. Emblos, with own-four high enrollments since 2012, offers highly personalized coaching for entraises exams to engineering and medical cours es. Their instructors pinpoint the weak-besses of each student by tracking time

es. Their instructors proposit the sealmisses of each student by cracking time
spent over every question in ordine moch
sets, and then offer personalized solutions and speed tips. The website also has
a leak predictor both that estimates your
all-infair rank become on the marks you
acroe in individual subjects in mech tosis.

Such tooks are a boon to those who live
in smaller towns and can't affird to move
to a higger city just for conshing. "We encourage strategies of solar in the confect
and convenience of their locality and pursue their professional goods through elearning and digital education," says
Aslanch Chaudhey, director. Askash Educational Service Private Limited.

So will coaching histe like Kota eventually lose their popularity Untilely,
any industry experts. The future market
will be a bleed of classroom and digital
treaching. "Beth classrooms and socches
will step, but the method of instruction
and learning will become more digitiond," Rhanna concludes.