

Monthly Coverage Dossier July 2017



IIT Madras joins hands with KPMG

Bid to monetise tech IIPs developed by the institute

By Raju Chakrabarti

IIT Madras has entered its focus on filing more patents and monetise its Intellectual Property (IP). It has tied up with consulting firm KPMG to market its technology IIPs, said Arvind Kumar, director, IIT Madras. The firm will help the institute file patents, including 20 international, as against one in the previous financial year. Revenue from patents more than doubled to Rs 10 crore in 2016-17 from nearly Rs 4 lakh in the previous financial year.

"Revenue from patents even chinks, quadrupled when compared with two years ago. We have made conscious effort to market our technology and make it aware for the industry to come and work with us," he said.

Monetising technology
The institute is moving up to monetising technology for competitive advantage. By forming

IIPs, it makes more business sense for them. "We are more comfortable coming to a decision licensing IIPs and trying to convert IIPs that are generic into something that is more specific to them and use," he said.

The strategy with KPMG, India's largest audit firm, is to file patents and monetise such a diverse range of technologies developed at the institute.

The technology hub at IIT Madras is quite diverse and managing such a diverse range of technologies is a big challenge and needs specialists, he said.

Market treatment tech
In the recent times, when treatment technology has been at

rearing, lot of attention with recent agreement with Honda, Toyota, Renault, for various technologies and battery-based technologies, there was focus with Arvind Kumar, director, IIT Madras, to monetise the 20th century from "data, decision, oil", would change the 21st century.

The institute has also joined hands with National Research Development Corporation, an enterprise of the Department of Scientific and Industrial Research, for commercialisation of technology developed at IITM, he said.

Data should be democratised: Nilekani

Former UIDAI chairman delivers 54th convocation address at Indian Institute of Technology-Madras

SPECIAL CORRESPONDENT

Change is the 21st Century will be propelled by data, and "no, data should be democratised. No need a policy that will ensure that everyone has access to data," said Nandan Nilekani, former chairman of Unique Identification Authority of India, and co-founder of Yatra.

Delivering the 54th convocation address at the Indian Institute of Technology, Madras, Nilekani said, if of transformed the 20th century from "data, decision, oil", would change the 21st century.

The class generated by massive online education

And now the digital revolution would provide a real time sense of the economy, if data is democratised, it could benefit everybody. Mr Nilekani said.

He gave the example of the Goods and Services Tax, which would generate a huge source of data, to right million businesses for the first time would be on one platform, it would bring new

business models and every sector and product will be made, he said.

Former UIDAI chairman Nilekani, in his address said the graduates the entrepreneurship and disruptive ideas and business models had changed the face of

companies. Even Volkswagen, which had made a name in mass manufacturing, found that a startup it had incubated, Tesla, had become successful by cracking on to small formers.

IITM Director, Manoj Kumar presented a report on the institute's performance.



Prof. Nilekani is student receives his degree certificate as former UIDAI chairman Nandan Nilekani, second from right, Madras, 2017

IIT alumnus to head Singapore varsity

He earlier led U.S. science foundation

SPECIAL CORRESPONDENT

Sudha Ravindra, former vice-chancellor and chairman of the Indian Institute of Technology Madras, has been selected to head the Nanyang Technological University of Singapore.

Prof. Ravindra had served a four-year term as the president of Carnegie Mellon University and director of the U.S. President Barack Obama to head the U.S. National Science Foundation.

According to a release from the institute, Prof. Ravindra completed his 41 years of IIT, which he joined IIT with the 41st convocation address in 1977.

An eight-member search committee chaired by Mr. Sudha Ravindra, chairman of the IIT Board of Governors, unanimously selected Prof. Ravindra for the post as IITM.



Prof. Ravindra

2016, IITM was picked 8th in the world in the Times Higher Education World University Rankings.

IITM's Dean of International and Alumni Relations, Ravindra said, "IITM has been close ties with NIT and is in the process of formalising a joint PhD degree programme. Ravindra's arrival at NITU augurs well for future interactions and collaborations among our two institutes," he said.

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**IIT Madras is a campus of choice
for high ranking JEE students**

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Page no.: 1

Journalist: NA

Professor: Prof. V Jagadeesh Kumar

Headline: The way forward

URL: <http://educationtimes.com/article/26/201707032017063019092048434caa761/The-way-forward.html>



Two academics on the changes needed in the sphere of engineering education and why it is important for students to choose a specialisation as per their interest

THE WAY FORWARD

→ V JAGADEESH KUMAR,
dean (academic courses),
IIT-Madras

In India, students frequently end up disliking the courses they take at college. The reason for this is that the education system in our country is yet to mature. The selection of a career after school comes with its set of problems. Students choose something based on not what they want but what they think will give them maximum opportunities in the future. I know of students who have chosen an engineering discipline they were not interested in merely due to parental pressure and the perception that a particular discipline is more sought after than another. This approach is incorrect.

COURSE CHOICE
Institutes worldwide are aware that students may or may not end up liking a course they take at college, and that if they pursue a course they were never interested in anyway, their commitment towards the programme will wane affecting their performance. They thus are flexible and allow students to switch disciplines in case the need arises. For example, a friend in Germany switched from maths to physics at the undergraduate level before finally finding his calling in electrical engineering. He now has a PhD in electrical engineering and is doing well in the field. Indian universities should offer such choices.

UPCOMING OPTIONS
Emerging areas of engineering in India such as renewable energy and battery technology may foresee disruptive innovations in the future.
Indian students, like their counterparts abroad, must pursue a course out of genuine interest and have a willingness to learn the subject.

→ For the complete story, visit educationtimes.com

accomplish, but once implemented, it will bring about a paradigm shift in the concept of learning.

PROJECT-BASED LEARNING
Classroom teaching and the dependence on chalk-and-talk mode are losing their importance, as they no longer interest Gen Y and don't ensure learning. Interacting with smart boards in classrooms, conducting challenging experiments in laboratories or fields, taking part in activities outside class with specific objectives, involving oneself in small projects with defined learning outcomes and assessing schemes have been proven to enhance learning. So, institutions should switch to project-based learning, which improves problem-solving skills and boosts students' confidence as well. At the same time, learning will become easy and exciting. Outdoor events such as hackathons, makeathons and codeathons, which are non-stop activities lasting at least 24 hours in the presence of a few industrialists and professors, are important. These events train students in time-bound problem-solving with resource constraints.

MULTI-ETHNIC EXPOSURE
In addition to making students good citizens, universities should impart multitasking skills, offer multi-ethnic exposure, instill ethical values and ensure students work on digital platforms. Given the demographic dividend to our advantage, with the largest number of working people to be in India by 2025, the Indian government is keen on educating the masses. This is evident from the new schemes it has announced. If each individual player in the sector decides to follow an ethical, transparent and self-regulated system, then growth is assured. This growth will make Indian institutions globally competitive. In turn, this would help to mould students to be reliable for the 2025 world marketplace.

→ ANAND A SAMUEL,
vice chancellor,
VIT University, Vellore

Engineering education should be updated consistently with changes taking place in the industry. However, it should be understood that it is the outcome of research carried out in higher education institutions that drives the industrial revolution. The interdependence is being felt now, and interactions between institutions and industry are growing. This will be the key and critical element in the growth of higher education institutions in general and engineering institutions/departments particularly in India. Both industries and institutions should collaborate for coexistence because the former will not find the required human resources without the latter.

INVOLVE INDUSTRY
The world is becoming highly competitive. Conventional academic processes will not do any good any longer. The focus should change from teaching to learning. This requires many changes in academics. This is more so because today's students — referred to as Gen Y — and their interests are entirely different from that of Gen X and the boomers of yesteryears. Even though it is a Herculean task, all engineering institutions/departments should effect the needed changes. For learning to be useful, interesting and effective, experts from industry should interact with students in the classroom. Incorporating this component into the syllabus will make it mandatory (a module of two to three hours in every subject to be handled by industrialists). A difficult task to



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Headline: I cooked spring rolls: This is what happens when an IITian interns with a global tech giant

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I cooked spring rolls: This is what happens when an IITian interns with a global tech giant



“Engineering students trump MBA candidates to win Samsung E.D.G.E.,” read the news headline. I couldn’t believe it! What looked like an impossible-to-win-but-let-me-try-it competition was now on my trophy shelf.

I’d never imagined we would win the Samsung E.D.G.E. competition (a campus programme to engage B-school and engineering students across India, with winners getting potential opportunities to work with Samsung).

I am a BTech student studying metallurgy and materials engineering at the Indian Institute of Technology, Madras, and my winning team presented a solution on leadership strategy in digital payments using a disruptive technology backbone built around Samsung's mobile payment service, Samsung Pay. It was sweet victory as our undergraduate engineering team was up against students from top B-schools. We were overnight rock stars in our college and, for a brief moment, became the talking point in B-school campuses too.

As the euphoria wore off, we realised that we may not be eligible to intern with Samsung India. We were undergraduates, while internship opportunities existed for B-school graduates.

However, much to my joy, an internship offer for summer of 2017 was made and I joined the Samsung Pay team since our winning business case was on Leadership Strategy for Samsung Pay.

My teammates chose to take the technical route and joined Samsung R&D Institute India-Bangalore, Samsung's biggest R&D facility outside Korea.

I arrived for my internship in Delhi on a hot May evening. I was excited. A Rajasthani who grew up in Bangalore, I was studying in Chennai for the last two years. I like exploring new cities. Add to that the opportunity to work at one of the global tech giants. What more could you ask for at 20!

After finishing the paper work, I was introduced to the Samsung Pay team. My guide Manasvi Vedhera turned out to be a brilliant mentor. By the second half on the first day, I felt very much at home.



Pranjal gets to work. (Sourced)

I spent the first week understanding everything about Samsung Pay. As with a lot of interns, I was full of energy and ideas, but I soon realised that not all ideas are good. I would throw ideas at the Samsung Pay team and they'd explain why it had not been done or what the roadblocks were and how we could go about it. This learning was a remarkable experience and helped me develop my business acumen.

I spent a lot of time identifying new use cases. I also worked with colleagues across the globe to do feasibility checks for these use cases, both technical and business.

The Samsung Pay team did a fabulous job in accommodating a rookie like me. They were extremely friendly and cooperative. Few of the best memories I have with the team are from the elaborate lunches hosted by our director Sanjay Razdan. Age never felt like a barrier between me and my colleagues. I was engaged in the team's ongoing projects to gain corporate experience and make me business ready.

I can now confidently say that I have a sound understanding of the payment scenario in India and across the globe. Through the internship, I had the opportunity to visit offices of popular Indian startups and MNCs, organise meetings, give presentations and attend mobile phone launches. All this has helped me become a much better professional.

I could relax too - there were several cool lounges where I could unwind.

Samsung also has some amazing facilities for its employees – a multi-cuisine cafeteria that serves Indian, continental as well as Korean food. I come from a prestigious yet government-run institution. Hostel food is good, but lunch in the office canteen was delicious.

One of the best memories I will take back from here is the Samsung Masterchef competition I took part in with my teammates. We cooked spring rolls which disappeared in the bellies of the audience, 3.142 microseconds after the judge praised its stuffing.

Even beyond these materialistic perks, the satisfaction of working on and for something touching millions of lives across the globe is beautiful.

I have loads of stories to tell my friends when I get back. One particular story that I would like to share is when I walked into a Samsung store with a date and told them I work at HO – the royal treatment that came next worked wonders!

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Alumni: Mr. Subra Suresh

Professor: Prof. R Nagarajan

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IIT-M alumnus Prof Subra Suresh to head Singapore tech university

EXPRESS NEWS SERVICE@ Chennai

PROFESSOR Subra Suresh, an alumnus of Indian Institute of Technology-Madras and hailing from Chennai, has been chosen as the fourth president of Nanyang Technological University (NTU), Singapore, according to a statement issued by IIT-Madras.

He will begin his presidency from January 1, 2018 after the retirement of the current president Professor Andersson.

A release issued by IIT-Madras said that Professor Suresh received his B Tech degree from IIT-Madras and was facilitated with the distinguished alumnus award by the institute in 1997.

Professor R Nagarajan, Dean of International and Alumni Relations, IIT Madras, said, "Subra

Suresh is one among our 150 distinguished alumni, and it is no surprise, given his record of accomplishments. IIT Madras has close ties with NTU, and is in the process of formalising a joint PhD degree programme. Subra Suresh's arrival at NTU augurs well for future interactions and collaborations among our institutions."

The professor served as the ninth president of Carnegie Mellon University from July 1, 2013 until June 30, 2017. An eight-member search committee chaired by Koh Boon Hwee, Chairman of the NTU Board of Trustees, unanimously selected Professor Suresh for the top NTU role.

He is an eminent scientist, engineer and entrepreneur and was

chosen in 2010 by then US President Barack Obama to lead the US National Science Foundation (NSF). He is also an elected member of the American Academy of Arts and Science and a fellow of the National Academy of Inventors. He got a master's degree from Iowa State University and has a Doctor of Science degree from MIT. After post-doctoral research at the University of California, Berkeley and the Lawrence Berkeley National Laboratory, he joined the Brown University in 1983.

Subra Suresh joined MIT in 1993 as the RP Simmons Professor of Materials Science and Engineering. He was also honoured with Padma Shri award in 2011 by the then President Pratibha Patil.

Date: 15th July 2017

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Edition: Chennai

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Journalist: NA

Alumni: Mr. Subra Suresh

Professor: Prof. R Nagarajan

Headline: IIT-M alumnus named NTU president

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CHENNAI: Professor Subra Suresh, an alumnus of IIT-Madras and a native of Chennai, was chosen as the fourth president of Nanyang Technological University (NTU), Singapore. Prof Suresh will begin his presidency on January 1, 2018, when the current president Prof Andersson retires. A release here on Friday said, NTU Singapore was one of the world's leading universities. In its QS World University Rankings this year, the Quacquarelli Symonds group placed NTU 11th in the world and the best in Asia. Prof Suresh received his B.Tech degree from the IIT-M and he was felicitated with the Distinguished Alumnus Award in 1997.

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Publication: The Financial Express

Edition: Online

Journalist: NA

Alumni: Mr. Subra Suresh

Professor: Prof. R Nagarajan

Headline: Big boost for Indian science, Subra Suresh appointed President of Singapore's top tech university; all you need to know about this prominent Indian origin scientist

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Big boost for Indian science, Subra Suresh appointed President of Singapore's top tech university; all you need to know about this prominent Indian origin scientist

An Indian-origin scientist, Subra Suresh has been in the news for taking over as the president of Singapore's prestigious Nanyang Technological University (NTU). With his term as the president starting in January 2018, Suresh would replace the incumbent Bertil Andersson to become the fourth President of NTU. The decision to appoint Suresh came after an eight-member committee meeting chaired by Chairman of the NTU Board of Trustees Koh Boon Hew. The committee unanimously selected Prof Suresh for the top role and his appointment has been strongly endorsed by all members. Here is all you need to know about one of the most prominent scientists of the world:

Most recently, Suresh has served as the president of Carnegie Mellon University from 2013 to 2017. Suresh was also chosen by former US President Barack Obama as the Director of US National Science Foundation in 2010. Commenting on Suresh's tenure at NSF, Obama had earlier said that, "We have been very fortunate to have Subra Suresh guiding the National Science Foundation. He has shown himself to be a consummate scientist and engineer – beholden to evidence and committed to upholding the highest scientific standards. He has also done his part to make sure the American people benefit from advances in technology. I am grateful for his service."

In the year 2011, Suresh has even received the prestigious Padma Shri award which is India's fourth highest civilian honor, bestowed by the then President of India Pratibha Patil. Suresh has also authored as many as 240 research articles in international journals, co-edited five books, co-invented 22 U.S. and international patent applications. Suresh has been elected to the National Academy of Medicine, National Academy of Sciences and National Academy of Engineering and is one of the only 19 American scientists who has been elected to all three branches.

Born in May 1956, Suresh hails from Mumbai and has graduated from 11th grade in Tamil Nadu at the age of 15. Suresh holds a BTech degree from the Indian Institute of Technology (IIT) Madras in Chennai and did MS from Iowa State University. He has also completed his doctoral thesis from the Massachusetts Institute of Technology

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Journalist: Sreeradha Basu

Alumni: Mr. Subra Suresh

Professor: Prof. R Nagarajan

Headline: IIT-Madras distinguished alumnus Subra Suresh named President of NTU Singapore

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MUMBAI: Professor Subra Suresh, a distinguished alumnus of IIT Madras, has been chosen as the fourth President of Nanyang Technological University (NTU), Singapore. He will begin his presidency on January 1, 2018, when the current president, Prof. Andersson retires.

In its QS World University Rankings this year, the Quacquarelli Symonds group placed NTU 11th in the world and the best in Asia.

Prof. Suresh received his Bachelor of Technology degree from the Indian Institute of Technology Madras and he was facilitated with The Distinguished Alumnus Award by the Institute in 1997.

He served as the ninth president of Carnegie Mellon University from July 1, 2013 until June 30, 2017.

An eight-member search committee chaired by Koh Boon Hwee, Chairman of the NTU Board of Trustees, unanimously selected Prof Suresh for the top role at NTU.

An eminent scientist, engineer and entrepreneur, Prof. Suresh was chosen in 2010 by then U.S. President Barack Obama to lead the US National Science Foundation (NSF). He is also an elected member of the American Academy of Arts and Sciences and a fellow of the National Academy of Inventors.

He has a Master's degree from Iowa State University, and has a Doctor of Science degree from MIT. Following postdoctoral research at the University of California, Berkeley, and the Lawrence Berkeley National Laboratory, he joined the faculty of engineering at Brown University in 1983, and was promoted to the position of Professor in 1989. He joined MIT in 1993 as the R.P. Simmons Professor of Materials Science and Engineering, and served as head of MIT's Department of Materials Science and Engineering from 2000-2006.

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Journalist: NA

Alumni: Mr. Subra Suresh

Professor: Prof. R Nagarajan

Headline: India's Pride: IIT Madras Distinguished Alumnus, Professor Subra Suresh, named President of NTU Singapore

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NTU Singapore is one of the world's leading universities. In its QS World University Rankings this year, the Quacquarelli Symonds group placed NTU 11th in the world and the best in Asia. NTU has also been placed the world's top young university for the last four consecutive years.

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Prof. R. Nagarajan, Dean of International and Alumni Relations, IIT-Madras, said, "Subra Suresh is one among our

150 Distinguished Alumni, and it is no surprise given his record of accomplishments. I'm sure he'll be replicate at NTU his successes at NSF and CMU. IIT Madras has close ties with NTU, and is in the process of formalizing a joint Ph.D. degree program. Subra's arrival at NTU augurs well for future interactions and collaborations among our institutions".

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Alumni: Mr. Subra Suresh

Professor: Prof. R Nagarajan

Headline: IIT-M alumnus named NTU Singapore President

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Alumni: Mr. Subra Suresh

Professor: Prof. R Nagarajan

Headline: IIT-M alumnus named NTU Singapore President

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Alumni: Mr. Subra Suresh

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IIT-M alumnus to head Singapore university

In 2010, he was chosen by Barack Obama to lead the US National Science Foundation

Subra Suresh, Padma Shree awardee and alumnus of the Indian Institute of Technology -Madras, has been selected to head the Nanyang Technological University of Singapore.

Prof. Suresh had served a four-year term as the president of Carnegie Mellon University and demitted office on June 30. He was chosen in 2010 by the then U.S. President Barack Obama to lead the U.S. National Science Foundation.

According to a release from the institute, Prof. Suresh completed his B Tech from IIT-M, which felicitated him with the distinguished alumnus award in 1997.

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At the NTU, he will begin his presidency on January 1, 2018. NTU was placed 11th in the world in the Quacquarelli Symonds World University Rankings this year.

IIT-M's Dean of International and Alumni Relations R. Nagarajan said, "IIT-M has close ties with NTU and is in the process of formalising a joint Ph.D degree programme. Subra's arrival at NTU augurs well for future interactions and collaborations among our institutions," he said.

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Alumni: Mr. Subra Suresh

Headline: IIT-Madras Distinguished Alumnus, Professor Subra Suresh, named President of NTU Singapore

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Science and Engineering, and served as head of MIT's Department of Materials Science and Engineering from 2000-2006.

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Edition: Online

Journalist: William Searcy

Alumni: Mr. Subra Suresh

Headline: India-born scientist Subra Suresh to head Singapore's Nanyang Technological University

URL: <http://westoverreview.com/2017/07/16/india-born-scientist-subra-suresh-to-head-singapores-nanyang-technological-university/>

India-born scientist Subra Suresh to head Singapore's Nanyang Technological University

Professor Subra Suresh has been appointed to succeed Professor Bertil Andersson as the fourth President of Nanyang Technological University, Singapore (NTU Singapore). An eminent engineer, scientist and entrepreneur, Suresh most recently served as the President of Carnegie Mellon University from 2013 to June 2017. Prior to his four year term at Carnegie Mellon University, Suresh served as the Director of the US National Science Foundation (NSF). Nominated by then-US president Barack Obama in 2010, he oversaw an annual budget of US\$7 billion covering in all fields of science and engineering in more than 2,000 institutions across the US. Suresh also has the unique distinction of being the only university president elected to all three US national academies of Sciences, Engineering and Medicine, and is one of the few elected foreign members of the Chinese Academy of Sciences. Currently a US citizen, Suresh was born in India and did his undergraduate studies at the Indian Institute of Technology in Madras. He went on to complete a Masters degree at Iowa State University and a Doctor of Science at the Massachusetts Institute of Technology (MIT), before conducting postdoctoral research at the University of California at Berkeley and the Lawrence Berkley National Laboratory. In 1983, he joined Brown University as an assistant professor of engineering and was promoted to full professor in 1989. Subsequently, Suresh joined MIT in 1993 as the R. P. Simmons Professor of Materials Science and Engineering. He was promoted to dean of engineering in 2007 and named the Vannevar Bush Professor. While at MIT, Suresh was the principal faculty coordinator who led the formation of the Singapore-MIT Alliance for Research and Technology (SMART) in 2006. In this capacity, he worked closely with the MIT and Singapore research communities, and presented the vision for the SMART center in July 2006 to the Research, Innovation and Enterprise Council (RIEC), chaired by Singapore Prime Minister Lee Hsien Loong. Suresh's interactions with Singapore began almost a quarter century ago, when he served as a consultant to the National Science and Technology Board, the predecessor of the Agency for Science, Technology and Research (A*STAR). Since then, he has been on the Advisory Boards or Councils of A*STAR Institutes and several schools at the National University of Singapore (NUS), in addition to holding the inaugural Tan Chin Tuan Centennial Chair for visiting appointments at NUS. "I have had a very special affinity for Singapore and numerous interactions with colleagues here in academia, industry and government. It has been a privilege to witness and also participate in the impressive rise of both Singapore and NTU on the international stage," Suresh said. "I look forward to working with the NTU community, including its outstanding faculty and administrative staff, 200,000+ global alumni, trustees, and exceptional students to realize the great opportunities that lie ahead. I am also grateful to Prof Andersson for his very impactful leadership of NTU for the past six years." According to an email to NTU staff from the Chairman of the NTU board of trustees, Mr. Koh Boon Hwee, Suresh was the unanimous choice of an eight-member search committee that was convened more than a year ago. "Prof Suresh understands the Singapore higher education and research

systems, as well as those in North America, Europe, China and India, having actively engaged with various public and private agencies and boards, and as a member of a number of national academies of science and engineering,” said Koh in a statement to the press. “He is an educator, scientist, advisor, inventor, entrepreneur and leader all rolled into one. The Board of Trustees and I are delighted that he has agreed to take the top job to lead NTU in its next phase of development.”

Date: 16th July 2017

Publication: The Times of India

Edition: Chennai

Page no.: 3

Journalist: NA

Alumni: Mr Subra Suresh

Headline: IIT-M professor named president of Singapore University

IIT-M professor named president of Singapore university: Professor Subra Suresh, a distinguished alumnus of Indian Institute of Technology Madras, has been chosen as president of Nanyang Technological University, Singapore. Professor Suresh will begin his presidency on January 1, 2018.

Date: 17th July 2017

Publication: The Hindu

Edition: Chennai

Page no.: 2

Journalist: NA

Professor: Prof. R. Nagarajan

Alumni: Mr Subra Suresh

Headline: IIT alumnus to head Singapore varsity

URL: <http://www.thehindu.com/news/cities/chennai/iit-alumnus-to-head-singapore-varsity/article19290979.ece>

IIT alumnus to head Singapore varsity

He earlier led U.S. science foundation

SPECIAL CORRESPONDENT
CHENNAI

Subra Suresh, Padma Shri awardee and alumnus of the Indian Institute of Technology-Madras, has been selected to head the Nanyang Technological University of Singapore.

Prof. Suresh had served a four-year term as the president of Carnegie Mellon University and demitted office on June 30. He was chosen in 2010 by the then U.S. President Barack Obama to lead the U.S. National Science Foundation.

According to a release from the institute, Prof. Suresh completed his B Tech from IIT-M, which felicitated him with the distinguished alumnus award in 1997.

An eight-member search committee chaired by Mr. Koh Boon Hwee, chairman of the NTU Board of Trustees, unanimously selected Prof. Suresh for the top role at NTU.

At NTU, he will begin his presidency on January 1,



Subra Suresh

2018. NTU was placed 11th in the world in the Quacquarelli Symonds World University Rankings this year.

IIT-M's Dean of International and Alumni Relations R. Nagarajan said, "IIT-M has close ties with NTU and is in the process of formalising a joint Ph.D degree programme. Subra's arrival at NTU augurs well for future interactions and collaborations among our institutions," he said.

CM
K

Date: 17th July 2017

Publication: India Today

Edition: Electronic

Journalist: NA

Alumni: Mr Subra Suresh

Headline: IIT Madras alumnus to head Singapore varsity



Date: 24th July 2017

Publication: Times of India

Edition: Mumbai

Page no.: 13

Journalist: Charu Narula

Professor: Prof. V. Jagdeesh Kumar

Headline: Engaging Engineers

BE KEEN

✦ V. JAGADEESH KUMAR,
*Dean, academic courses,
IIT Madras*

It is essential for students to relate to their career choice. Pursuing a course and specialisation in your area of interest is important. It is also important for students to innovate and think creatively. For example, NASA just launched a satellite weighing a mere 64 grams, designed and developed not by scientists or engineers, but by an 18-year-old student from Tamil Nadu. He managed to design this satellite, thanks to his passion, determination, offbeat thinking, and hard work. And this is what engineers need to grow in their field of practice.

PROBLEM-SOLVING

✦ SWATI SALUNKHE,
Career counsellor

The field of engineering focuses on solving technical problems. Readiness to solve problems beyond one's studied branch of engineering helps young professionals climb the corporate structure. Students of engineering must not demarcate themselves with branches and restrict their learning as well as their exposure. Today's engineering graduates need to focus on broadening their skill-set. They must have good communication skills, both written as well as oral, readiness to work in a team, problem solving skills, logical thinking, a strong numerical ability and readiness to adapt oneself positively with situations, people, new ideas, technology and likewise.

MULTI-DIMENSIONAL

✦ SAMIT K. DAS, *Director, IIT Roorkee*

Being flexible, and having strong, analytical skills, and practical ingenuity go a long way in succeeding in the field of engineering. Creativity, good communication, high ethical standards of leadership and professionalism is what one needs to make a career in the field of engineering.

STAY VOCAL

✦ SHIVAM JEEDIGUNTA,
Alumn, IIT Bombay and won a software engineers at Google

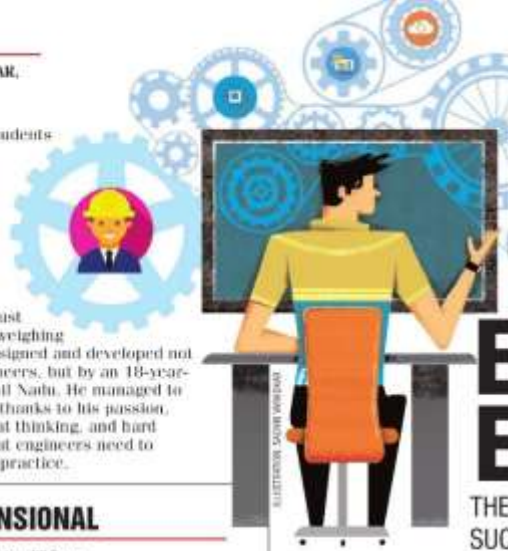
First and foremost, proactive employees always achieve success in the engineering industry. Unlike in school or college, where you are constantly told what to do, you will typically be granted more freedom at the workplace. Even if you are content with the salary and amenities of your current position, try to take on more responsibility.

ENGAGING ENGINEERS

THE LOW-DOWN ON WHAT YOU NEED TO SUCCEED IN THE FIELD OF ENGINEERING

Charu.Narula@timesgroup.com

> For the complete story, visit www.educationtimes.com



**IIT Madras is a multi-cultural
campus**

Date: 19th July 2017

Publication: The Times of India

Edition: Chennai

Page no: 3

Journalist: NA

Headline: IIT-M to host Nandan Nilakeni for convocation

IIT-M to host Nandan Nilakeni for convocation:

The 54th Convocation of the Indian Institute of Technology Madras will be conducted on Friday, July 21 at the Student Activities Centre on campus at 3.30 pm. Nandan Nilakeni, former chairman, Unique Identification Authority of India and co-founder, Infosys will be present as the chief guest.

Date: 21st July 2017

Publication: The Hindu

Edition: Chennai

Page no.: 3

Journalist: NA

Headline: General- Indian Institute of Technology

<p>Indian Institute of Technology: 44th convocation, Student Activities Centre, Taramani, 3.30 p.m.</p>
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Date: 22nd July 2017

Publication: The Hindu Business Line

Edition: Chennai / Delhi / Mumbai / Pune / Bangalore / Hyderabad / Kolkata / Kochi / Ahmedabad

Page no.: 9

Journalist: NA

Professor: Prof. Bhaskar Ramamurthi

Alumni/students: Chinmay Jha, Vishal Katariya, Vidhya Ramaswamy & Shashwat Nitin Sinai Salgaocar

Headline: We're entering an era of life-long learning: Nilekani

URL: <http://www.thehindubusinessline.com/info-tech/were-entering-an-era-of-lifelong-learning-nilekani/article9783997.ece>

We're entering an era of life-long learning: Nilekani

OUR BUREAU

Chennai, July 22

"The biggest takeaway from IIT Madras will not be whether you know thermodynamics or something else but the ability to learn new things. Learning to learn will be the biggest lesson that you will take away from your IIT days," Nandan Nilekani, Former Chairman, Unique Identification Authority of India and co-founder, Infosys, told graduating students of IIT Madras.

"The good news is that you got a degree from IIT Madras, and the not-so-good news is that you cannot stop learning. You have to keep learning for the rest of your life because we are entering an era of life-long learning," he said at the institute's 54th Convocation Day.

Nilekani said he was an entrepreneur for nearly 10 years and was also part of government engaged in a start-up (UIDAI) but never seen the pace of change as high as it is

today. One cannot predict the kind of job that a person will do in the future or the kind of organisation he/she will work in the future. Being an entrepreneur, one cannot predict what the pivots in business will be, he said.

The rate of change is doubling every 18 months. "This means many jobs that exist today will not exist tomorrow, and many new jobs will be created tomorrow that don't exist today," he said.

For instance, machines are becoming smarter with new technologies like machine learning, artificial intelligence and deep learning and will take away repetitive jobs that they can do well. However, machines will never take away jobs that involve people to do well.

Therefore, soft skills and doing things with empathy, able to collaborate and work as a team cannot be automated. Students should develop



Nandan Nilekani, Co-founder, Infosys, flanked by Pawan Goenka (second left), Chairman, Board of Governors, IIT Madras, and Bhaskar Ramamurthi, Director, at the 54th convocation of the institute in Chennai, on Friday evening.

these capabilities to get things done in a different way that have a high degree of human

interaction, he said.

Bhaskar Ramamurthi, Director, IIT Madras, said that in

the past academic year, the institute not only sustained the No.1 ranking among engineer-

ing institutes in the NIRF ranking for the second year running, but was also ranked second for overall performance among all universities in India.

Nilekani presented prizes to students while Ramamurthi awarded degrees to graduating students. A total of 2,263 degrees were awarded this year.

Prize winners

The President of India Prize (Bharat Ratna M Visvesvaraya Memorial Prize and Ramco Foundation Prize), Chinmay Jha, B.Tech (Mechanical Engineering); Governor's Prize - Vishal Katariya, B.Tech (Physics); V Srinivasan Memorial Prize (Alumni Association Prize) - Vidhya Ramaswamy, Dual Degree (Computer Science Engineering); and Shankar Dayal Sharma Prize - Shashwat Nitin Sinai Salgaocar, B.Tech (Aerospace Engineering)

Date: 22nd July 2017

Publication: The Hindu

Edition: Chennai

Page no.: 3

Journalist: NA

Professor: Prof. Bhaskar Ramamurthi

Alumni/student: Chinmay Jha, B

Headline: Data should be democratised: Nilekani

URL: <http://www.thehindu.com/todays-paper/tp-national/tp-tamilnadu/data-should-be-democratised-nilekani/article19328331.ece>

Data should be democratised: Nilekani

Former UIDAI chairman delivers 54th convocation address at Indian Institute of Technology Madras

**SPECIAL CORRESPONDENT
CHENNAI**

Change in the 21st Century will be propelled by data, and "so, data should be democratised. We need a policy that will ensure that everybody has access to data," said Nandan Nilekani, former chairman of Unique Identification Authority of India, and co-founder of Infosys.

Delivering the 54th convocation address at the Indian Institute of Technology Madras, Mr. Nilekani said, if oil transformed the 20th century then "data, the new oil", would change the 21st century.

The data generated by massive exercises such as the

Aadhaar or the digital transition would provide a real time sense of the economy. If data is restructured, it could benefit everybody, Mr. Nilekani said.

He gave the example of the Goods and Services Tax, which would generate a huge source of data, as eight million businesses for the first time would be on one platform. It would bring one billion "line items" and every service and product will have a code, he said.

Pawan Goenka, chairman, Board of Governors of the Institute, in his address told the graduates that entrepreneurship and disruptive ideas and business models had changed the face of

companies. Even Mahindra, which had made a name as tractor manufacturer, found that a start-up it had incubated, Trirringo, had become successful by reaching out to small farmers.

IIT-M Director Bhaskar Ramamurthi presented a report on the institute's performance.

Of the 2,263 candidates who qualified for their degrees, a total of 1,516 graduands received their certificates in person.

Chinmay Jha, B. Tech (Mechanical Engineering) won three prizes – President of India prize; Bharat Ratna M. Visvesvaraya Memorial Prize and the Banca Foundation Prize.



Proud moment: A student receives his degree certificate as former UIDAI chairman Nandan Nilekani, second from right, looks on. ■ N. SRINIVASAN

Date: 22nd July 2017

Publication: The Times of India

Edition: Chennai

Page no.: 5

Journalist: NA

Professor: Prof. Bhaskar Ramamurthi

Headline: Lifelong learning key to stay prepared for changes ahead: Nilekani to IITians

URL: <http://timesofindia.indiatimes.com/city/chennai/lifelong-learning-key-to-stay-prepared-for-changes-ahead-nilekani-to-iitians/articleshow/59706158.cms>

Lifelong learning key to stay ready for changes ahead: Nilekani to IIT-M grads

TIMES NEWS NETWORK

Chennai: Stressing the importance of lifelong learning, former chairman of Unique Identification Authority of India Nandan Nilekani advised IIT-M graduates that their biggest takeaway must be the ability of 'learning to learn' new things as they prepare for changes ahead.

"Never has the pace of change been as high as today. We are entering an era of lifelong learning because we can't predict the kind of jobs or organisations we will be working for. You have to learn something new every few years," he said while speaking at the 54th IIT-M convocation on Friday.



Nandan Nilekani felicitates an IIT-M student during the convocation of the institute on Friday

Nilekani said, "Many jobs that exist today may not be there tomorrow while many which don't exist today will be

created later. Whether careers or job markets, the key message is life-long learning," he said, adding learning need not necessarily be on campus but could be online, anytime, anywhere.

Nilekani said while machines will take away jobs that machines can do well, it could never take away jobs that require people to do well. "Soft skills, empathy, collaboration, teamwork, goal setting and leading people can never be automated. So you should develop capability in doing things in a different way that have a high degree of human interaction," he said.

Stating that India is on the verge of enormous change due to digital explosion, Nilekani

said data has become the new oil of the 21st century and the basis of transformation. He said it is important for data to be democratised and accessible to everyone and must be restructured to benefit individuals and businesses. With large scale national networks like GST, he said a consumer can get his own data to get better loan, education or healthcare, while a business can use data to get better credit or business.

IIT-M director professor Bhaskar Ramamurthi said a total of 2,263 degrees were awarded this year. With 257 PhDs awarded this year, IIT officials said this has been the highest number in the history of the institute so far.

Date: 22nd July 2017

Publication: The New Indian Express

Edition: Chennai

Page no.: 3

Journalist: NA

Professor: Prof. Bhaskar Ramamurthi

Alumni/students: Chinmay Jha, Vishal Katariya, Vidhya Ramaswamy & Shashwat Nitin Sinai Salgaocar

Headline: Be ready for a world of changes, says Nandan Nilekani at IIT-M convocation

URL: <http://www.newindianexpress.com/cities/chennai/2017/jul/22/be-ready-for-a-world-of-changes-says-nandan-nilekani-at-iit-m-convocation-1631983.html>

Be ready for a world of changes, says Nilekani

Stresses the need for lifelong learning at IIT Madras convocation; says today's jobs may not exist tomorrow

EXPRESS NEWS SERVICE Chennai

Well prepared for a world with changes. That was the big message at the 50th convocation of IIT Madras, from where 3,262 students graduated this year.

"Industry, the industry, drive the changes are happening and we have to be prepared for a world where there will be a lot of changes. The good news for me is that you are good looking from an institute like IIT Madras. But the bad news is that you are not good looking because you can't predict what the future requirements will be. Your biggest takeaway from IIT Madras is going to be learning to learn. It has to be a lifelong learning," said Nandan Nilekani, the former chairman of Unique Identification Authority of India and founder of Infosys, who was the chief guest at the event held at Madras Cricket Ground on Friday.

"You graduates are going to a world of an exciting time, which is brimming with opportunities. Opportunities are also high. So be prepared to learn, develop learning skills and be on top of whatever needs," he said.

Nilekani said in the past 10 years, artificial intelligence and automation have become popular, making systems smarter. "I call this the second half of the dashboard—your job title tomorrow will not exist tomorrow. That is where the challenge of lifelong learning comes in. Keep in mind, India for various reasons has seen a digital divide, where the IT India has built a sophisticated stack of software tools, which people can access. Another category, silicon and other large, traditional platform like GST network generate huge volumes of data. For the first time in India, a million businesses will be on one platform," he said.

"The active view of, itself in the business of 21st century," Nilekani, who goes under the grades to students, said.

IIT Madras Director Bhaskar Ramamurthi also gave the message. He said the past academic year had been very rewarding for the IIT-M, reaffirming its position in NIRF ranking for second year running.

Vishal Katariya
(B.Tech - Physics). He won the Governor's prize.

Chinmay Jha
(B.Tech - Mechanical Engineering). He won President of Institution, Shri Chhatra M Vivekananda Memorial Prize and Bhanu Khandappa Prize.

Vidhya Ramaswamy
(Dual Degree Computer Science Engineering). She won Lal V. Shrivastava Memorial Prize and Agavee Appalaraju Prize.

Shashwat Nitin
(B.Tech Aerospace Engineering). He won Dr. Shankar Dayal Sharma Prize.



IIT-M satellite gearing for launch
IIT Madras director Bhaskar Ramamurthi said STMSAT, which is a student-led satellite initiative of IIT Madras to launch a space-based Photos and Electron Energy Spectra (SPEES), has been fully built and is currently undergoing intensive testing at ISRO and DRDO, targeting a July-based launch later this year. A satellite tracking ground station has also been set up on campus by the students, he said.

Bright spot
3,262 students graduate from IIT-M.

422 from B.Tech, which is more.

341 dual degree students in B.Tech/M.Tech.

48 M.Sc, 50 M.Sci, 10 M.A, 175 M.S and 257 PhD degrees awarded.

M.Tech/PhD dual degree and a joint PhD degree with the University of Paderborn, Germany, were awarded for the first time this year.

RAMM (13)

Date: 22nd July 2017

Publication: Deccan Chronicle

Edition: Chennai/Kochi/Hyderabad

Page no.: 3

Journalist: NA

Professor: Prof. Bhaskar Ramamurthi

Headline: Data is new oil, basis for transformation: Nandan Nilekani

URL: <http://www.deccanchronicle.com/nation/current-affairs/220717/data-is-new-oil-basis-for-transformation-nandan-nilekani.html>

Data is new oil, basis for transformation: Nilekani

DC CORRESPONDENT
CHENNAI, JULY 21

Former Unique Identification Authority of India chairman Nandan Nilekani said the massive data being created through various platforms including Aadhaar should be accessible to everyone.

Speaking at the 54th convocation of IIT Madras on Friday he said, "Just as the oil was the basis for the transformation in 20th century data is the basis for the 21st century."

"But it's very important that the new oil, the data are democratised and available to everyone to use," he said, adding that it should not fall in the pockets of few organisa-



Former UIDAI chairman and Infosys co-founder Nandan Nilekani handing over certificates to a student at IIT Madras on Friday. IITM chairman Pawan Goenka and director Bhaskar Ramamurthi are also seen.

— DC

tions.

A consumer can get his own data to get better health care and a good education. Likewise,

business sector can use the data to make better business. "If we can restructure the data to benefit the every in-

dividual and business, it will lead to the enormous amount of economic growth," the chief architect of the Aadhaar scheme said.

"IIT Madras has filed 120 patent applications during the year, of which 20 are international patents. It has topped among the IITs with the higher number of patent filings," said Bhaskar Ramamurthi, director, IIT Madras.

He also said the IIT-MS-AT will be launched later this year. "The satellite is currently undergoing intensive testing at Isro and IIT-M," he said. A total of 2,263 degrees were awarded this year, of which 1,588 degrees were awarded in person and rest in absentia.

Date: 22nd July 2017

Publication: The Asian Age

Edition: Delhi / Mumbai / Kolkata

Page no.: 15

Journalist: NA

Headline: Data is the new oil, says Nandan Nilekani

URL: <http://www.asianage.com/business/in-other-news/220717/data-is-the-new-oil-says-nandan-nilekani.html>

TRACKING | TRENDS

■ He noted much of it would depend upon policies on data

Data is the new oil, says Nilekani

Chennai, July 21: Describing data as the "new oil", Infosys co-founder Nandan Nilekani on Friday said India has a chance to build a completely new paradigm as he made a strong pitch for democratising data so that it is available to everybody and not just a select few organisations.

"Data has become the new oil. Just like oil was the basis for transformation of the 20th century, data is the basis for 21st century. But it is very important that if data is the new oil, then data is democratised (and) that data is available to every-



Data has become the new oil. Just like oil was the basis for transformation of the 20th century, data is the basis for 21st century. But it is very important that if data is the new oil, then data is democratised

— N. NILEKANI

body to use," Mr Nilekani said in his address at the 54th convocation of Indian Institute of Technology, Madras.

What kind of policies the country has on data is very

important and it has to be made sure that all this "massive data that is going to get created is not just in a few pockets of organisations but everybody has access to that", he noted.

"In India, we have a chance to do that, thanks to the technology we have and what that means is that a consumer can get his own data to get a better loan, better health care, education. A business can use data to get better credit or better business.

"So therefore, if data is the new oil, and if we can restructure data to benefit every individual and every business, then we can lead to enormous amount of activity and economic growth. So we have a chance to build a completely new paradigm on data which no other country can do," he said.

The former UIDAI chairman said India, due to its "digital explosion", was on the verge of enormous change which would create massive opportunities.

Over the last eight years, India has built a very sophisticated stack of software tools which a billion people can access, he said.

"It is based on everybody having a unique ID, the Aadhaar number. You can use that for doing authentication wherever you are (using) your phone, you can use that for doing a KYC which allows you to open a bank account or get a SIM card," he said.

— PTI

Date: 22nd July 2017

Publication: Millennium Post

Edition: Delhi / Kolkata

Page no.: 13

Journalist: NA

Headline: Data has become the new oil, says Nilekani

URL: <http://www.millenniumpost.in/business/data-has-become-the-new-oil-says-nilekani-253741>

Data has become the new oil, says Nilekani

CHENNAI: Describing data as the 'new oil', Infosys co-founder Nandan Nilekani on Friday said India has a chance to build a completely new paradigm as he made a strong pitch for democratising data so that it is available to everybody and not just a few organisations.

"Data has become the new oil. Just like oil was the basis for transformation of the 20th century, data is the basis for 21st century.

"But it is very important that if data is the new oil, then data is democratised (and) that data is available to everybody to use," Nilekani said in his address at the 54th convocation of Indian Institute of Technology, Madras (IIT-M).

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Nilekani, former Chairman of the Unique Identification Authority of India (UIDAI), said India, due to its 'digital explosion', was on the verge of enormous change which would create massive opportunities.

Over the last eight years, India has built a very sophisticated stack of software tools which a billion people can access, he said.

"It is based on everybody



having a unique ID, the Aadhaar number. You can use that for doing authentication wherever you are (using) your phone, you can use that for doing a KYC (Know Your Customer) which allows you to open a bank account or get a SIM card. It allows you to electronically sign and store documents and it allows to access your own data," he said.

Such systems were now available at a 'scale' in India, he said, adding the Aadhaar system on June 30 did four

crore authentications even as the direct cash transfer system built using the unique ID has crossed two billion transactions in the last three years.

These were really "large national scale systems" that have been built in India and will allow creating a new class of solutions, that would be dramatically cheaper than anything being done on Friday.

India was also building systems which were creating national level platforms for many things and the GST Network was a good example of this, he said.

"We have talked about the GST and its impact on a single market and so on but it is also a huge source of data.

"Because, for the first time in India, eight million businesses will be on one platform, because earlier those who paid excise duty or VAT, they will all be on one platform. So all the taxpayers in India, the business taxpayers who pay indirect tax, they have to file invoice line

item level returns into the GST network.

"So if you have 8 million businesses in India who do 120 line items a month, we are talking about a minimum of one billion line items that are going to be recorded every month in the GST system.

"So suddenly you will have data on a billion transactions a month across the country for every product and service that is being transacted. This is a huge, huge move forward," he said.

This data will allow getting a real time sense of the economy, because there will be information on a daily or weekly basis whether the economy was growing or not and which regions were doing well and so on, he said. Digital transactions can also be used to avail credit.

"Suddenly eight million businesses will become eligible for credit as companies will be able to demonstrate their performance, and there are many other such systems coming up," he said.

#1

Date: 22nd July 2017

Publication: Business Standard

Edition: Delhi / Mumbai

Page no.: 4

Journalist: NA

Headline: Infy co-founder Nilekani calls data the new oil

Infy co-founder Nilekani calls data the new oil

Describing data as the "new oil", Infosys co-founder Nandan Nilekani on Friday said India has a chance to build a completely new paradigm as he made a strong pitch for democratising data so that it is available to everybody and not just a few organisations. "Data has become the new oil. Just like oil was the basis for transformation of the 20th century, data is the basis for 21st century. But it is very important that if data is the new oil, then data is democratised (and) that data is available to everybody to use," Nilekani said at the IIT-Madras.

PTI

Date: 22nd July 2017

Publication: DT Next

Edition: Chennai

Page no.: 3

Journalist: NA

Professor: Prof. Bhaskar Ramamurthi

Headline: Data is king in 21st century, says Nilekani

URL: <http://www.dtnext.in/News/City/2017/07/21214159/1039342/Data-has-become-the-new-oil-says-Nandan-Nilekani.vpf>

Data is king in 21st century, says Nilekani

CHENNAI: "India is going through a digital explosion, bringing with it changes and enormous opportunities," said Nandan Nilekani, former chairman, Unique Identification Authority of India and co-founder, Infosys, at the 54th Convocation of the Indian Institute of Technology - Madras (IIT-M) here on Friday.

"We have built a sophisticated stack of software tools, which can be used for authentication or to knowing your customer. On June 30, the Aadhaar automatic system saw four crore applications in a day. India is building large systems and creating national platforms, for example, the GST network.

For the first time in India, eight million businesses will be on one platform to file invoices on the network. One billion transactions have been recorded in



Nandan Nilekani, former chairman, UIDAI and Infosys co-founder, presents a degree to a student at the 54th Convocation of IIT-Madras on Friday

the system. This data will allow you to get a real-time sense of the economy," he said.

"Oil was the basis of transformation in the 20th century, data is the new oil, it will be the business of 21st century," said the former IIT-Bombay alumnus.

Nilekani pointed out that it is important that this data is democratised.

Addressing the students, Nilekani said that the graduates should be ready for life-long learning, as the pace of change has never been as high as it is today. He advised the students to

invest in "human skills."

A total of 2,263 degrees were awarded this year. M Tech/Ph D Dual-Degree and a joint PhD Degree with the University of Passau, Germany, were awarded for the first time this year.

Presenting a report on the Institute's performance

A joint PhD Degree with University of Passau, Germany, was awarded for the first time this year

in the last academic year, Prof. Bhaskar Ramamurthi, Director, IIT-Madras, said, "The past academic year has been very rewarding for IIT-M. It has not only sustained the number 1 ranking among engineering institutes in the NIRF ranking for the second year running, but has been ranked in the 2nd position for overall performance among all universities in India."

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Headline: 2,263 students get degrees in IIT Convocation

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ஐ.ஐ.டி., பட்டமளிப்பு விழா 2,263 பேர் சான்றிதழ் பெற்றனர்

சென்னை, ஜூலை 22-
சென்னை, ஐ.ஐ.டி.,
பட்டமளிப்பு விழா
வில், 2,263 மாணவர்கள்
பட்டம் பெற்றனர்.

தேசிய உயர்கல்வி
தொழிற்றுப்ப கல்வி நிறு
வனமான, சென்னை,
ஐ.ஐ.டி.,யின், 54வது
பட்டமளிப்பு விழா, கல்
லுரி வளாகத்தில் நேற்று
நடந்தது.

ஐ.ஐ.டி.,யின் நிர்வாக
குழு தலைவரும், மஹிந்
திரா நிறுவன நிர்வாக
இயக்குனருமான, பவன்
கோயங்கா தலைமை
வகித்தார். விழாவில், கல்
லுரி இயக்குனர் பாஸ்கர்
ராமமூர்த்தி, கல்லூரியின்
செயல்திறன் ஆண்டு அறிக்கை
கையை சமர்ப்பித்தார்.

சிறப்பு விருந்தினராக,
ஆதார் அட்டைக்கான
ஆணைய முன்னாள் தலை
வர், நந்தன் நிலேகனி
பங்கேற்று பேசினார்.

விழாவில், 284
மாணவியர், 21 மாற்
றுத் திறனாளிகள்
உட்பட, 2,263 பேர்
பட்டம் பெற்றனர்.

அதிகபட்சமாக, 375
பேர், மெக்கானிக்கல் பிரி



■ சென்னை, ஐ.ஐ.டி.,யின், 54வது பட்டமளிப்பு விழா, நேற்று அடையாறில்
நடந்தது. இதில், மத்திய அரசின், ஆதார் அமைப்பின் முன்னாள் தலைவர், நந்தன்
நிலேகனி பட்டங்களை வழங்கினார். உடன், ஐ.ஐ.டி.,யின் நிர்வாகக் குழு தலைவர்
பவன் கோயங்கா மற்றும் இயக்குனர் பாஸ்கர் ராமமூர்த்தி.

வில் பட்டம் பெற்றனர். பட்டம் பெற்றனர்.
எலக்ட்ரிக்ஸ் - எலக்ட்
ரானிக்ஸ், 273; சிவில்
இன்ஜி., 236; கம்ப்யூ.,
சமின்ஸ் பிரிவில், 162 பேர்

நிதின் ஆகியோருக்கு
வழங்கப்பட்டன. இது
தவிர, 69 பேருக்கு, துறை
ரீதியாக சிறப்பு பரிசுகள்
வழங்கப்பட்டன.

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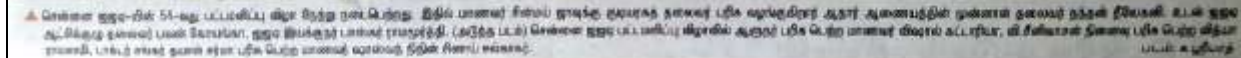
Headline: IIT Madras Convocation

ஐஐடி மெட்ராஸ் பட்டமளிப்பு விழா



▶ ஐஐடி மெட்ராஸின் 54வது பட்டமளிப்பு விழா சென்னை ஐஐடி வளாகத்தில் நேற்று நடந்தது. மத்திய அரசின் யூனிக் ஐடென்டிபிகேஷன் அதாரிட்டி ஆப் இந்தியா முன்னாள் தலைவர் மற்றும் இன்போசிஸ் இணை நிறுவனர் நந்தன் நீலகேனி கலந்துகொண்டு மாணவர்களுக்கு பட்டங்களை வழங்கினார். உடன் ஐஐடி மெட்ராஸ் ஆளுநர்கள் குழுமத்தின் தலைவர் மற்றும் மஹிந்தரா நிர்வாக இயக்குனர் பவன் கோயங்கா, ஐஐடி மெட்ராஸ் இயக்குனர் பாஸ்கர் ராமமூர்த்தி.

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Professor: Prof. Bhaskar Ramamurthi

Alumni/students: Chinmay Jha, Vishal Katariya, Vidhya Ramaswamy & Shashwat Nitin Sinai Salgaocar

Headline: Policy should be framed in a manner that enables Collection of information to be used by all

‘தகவல் திரட்டுகளை அனைத்துத் தரப்பினரும் பயன்படுத்தும் வகையிலான கொள்கை அவசியம்’

சென்னை, ஜூலை 21: தகவல் திரட்டுகளை அனைத்து தரப்பினரும் பயன்படுத்தக்கூடிய வகையிலான கொள்கையை அரசு வகுக்க வேண்டும் என இன்ஃபோசிஸ் நிறுவன இணை நிறுவனரும், இந்திய தனி அடையாள ஆணையத்தின் (டிஜி ஏஐ) முன்னாள் தலைவருமான நந்தன் நிலேகனி கூறினார்.

சென்னை ஜூலை-யின் 54 - ஆவது பட்டமளிப்பு விழா சென்னையில் வெள்ளிக்கிழமை நடைபெற்றது. இதில் சிறப்பு விருந்தினராகப் பங்கேற்ற நந்தன் நிலேகனி பேசியது உலகநாடுகளையெல்லாம் இந்தியாவும் தற்போது தொழில் நுட்பத்தில் அபார வளர்ச்சி பெற்று வருகிறது. கடந்த 8 ஆண்டுகளில் வட்சக்கணக்கான மக்கள் பயன்படுத்தக்கூடியவகையில், ஏராளமான மென்பொருள் தொழில் நுட்பம் இந்தியாவில் நடைமுறைக்கு வந்துள்ளது.

உதாரணமாக ஆதார் என.

இதில் நாட்டில் உள்ள 100 கோடிக்கும் அதிகமான குடிமக்களின் தனி நபர் தகவல்கள் திரட்டப்பட்டிருக்கின்றன. ஒருவரின் புகைப்பட அப்தாட்சிக்கு, சிம்-கார்டு வாங்கிக் கொள்ளுதல், விவரங்களை அறிய, வாங்கிக் கொள்ளுதல் தகவல்களைப் பெற என பலதரப்பட்ட பரிவர்த்தனைகளுக்கு ஆதார் பயன்படுகிறது.

இதேபோல் ஜிஎஸ்டி, சந்தை பொருளாதாரத்தில் மிகப் பெரிய மாற்றத்தைக் கொண்டு வந்துள்ளது. இதன் மூலம், முதன் முறையாக நாட்டிலுள்ள 80 வட்சத்துக்கும் அதிகமான வர்த்தகங்கள் ஒரு குடையின்கீழ் கொண்டுவரப்பட்டன. இதன் மூலம், கோடிக்கணக்கான வர்த்தக பரிவர்த்தனைகள் குறித்த தகவல்கள் திரட்டப்பட

டுகின்றன. ஆதார், ஜிஎஸ்டி, உள் விட்ட, தனி தொழில்நுட்பங்கள் மூலம் தனி நபர், வர்த்தகம், வாகனம் போன்றவை குறித்த கோடிக்கணக்கான தகவல்கள் திரட்டப்படுகின்றன. இந்தத் தகவல்கள் நாட்டின் பொருளாதார வளர்ச்சிக்கு மட்டுமல்லாமல், தொழில் நிறுவனங்கள் மற்றும் தொழில் முனைவோருக்கும் பயன்தரக் கூடியதாகும். எனவே, இந்த தகவல் திரட்டை ஒவ்வொருவரும் பயன்படுத்தக்கூடிய வகையில், தெளிவான கொள்கையை அரசு வகுக்க வேண்டும் என்றார் அவர்.

பட்டமளிப்பு விழாவில், பி.டெக், எம்.டெக், இரட்டைப் பட்டப் படிப்பு, ஆராய்ச்சி படிப்பு புகளை முடித்த 2,263 பேருக்கு பட்டச் சான்றிதழ்கள் வழங்கப்பட்டன. ஜூடி இயக்குநர் பாஸ்கர் ராமசுபிரதி மாணவர்களுக்கு

பட்டச் சான்றிதழ்களை வழங்கினார். பி.டெக், மெக்கானிக்கல் பிரிவில் சிறப்பிடம் பெற்ற மாணவர் சின்மய ஜாவுக்கு, விழாவில் ‘குடியரசுத் தலைவர் பரிசு’, பாரத ரத்னா எம்.வி.விவேகராயர் நினைவுப் பரிசு, டெங்கோ அறக்கட்டளை பரிசு ஆகியவை வழங்கப்பட்டன.

பி.டெக் இயந்திரப் படிப்பில் சிறப்பிடம் பெற்ற விஷால் காரியா என்ற மாணவருக்கு விழாவில் ‘ஆனந்த் பரிசு’ வழங்கப்பட்டது.

கணினி அறிவியல் பொறியியல் படிப்பில் சிறப்பிடம் பெற்ற மாணவி வித்யா ராமசாமிக்கு ‘வி.சி. விவாசன் நினைவுப் பரிசும், ஜூடி முன்னாள் மாணவர் சங்க பரிசும் வழங்கப்பட்டது.

பி.டெக், எரோ ஸ்பேஸ் மாணவர் சஷ்வத் நிதின் சினல் சங்கோகருக்கு டாக்டர் ‘சங்கர் நாயர்’ நினைவுப் பரிசு வழங்கப்பட்டது.

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Headline: Data has become the new oil, says Nilekani

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Data has become the new oil, says Nilekani

Chennai, Jul 21 (PTI) Describing data as the "new oil", Infosys co-founder Nandan Nilekani today said India has a chance to build a completely new paradigm as he made a strong pitch for democratising data so that it is available to everybody and not just a few organisations.

"Data has become the new oil. Just like oil was the basis for transformation of the 20th century, data is the basis for 21st century.

"But it is very important that if data is the new oil, then data is democratised (and) that data is available to everybody to use," Nilekani said in his address at the 54th convocation of Indian Institute of Technology, Madras (IIT-M).

What kind of policies the country has on data is very important and it has to be made sure that all this "massive data that is going to get created is not just in a few pockets of organisations but everybody has access to that", he noted.

"In India, we have a chance to do that, thanks to the technology we have and what that means is that a consumer can get his own data to get a better loan, better health care, education. A business can use data to get better credit or better business.

"So therefore, if data is the new oil, and if we can restructure data to benefit every individual and every business, then we can lead to enormous amount of activity and economic growth. So we have a chance to build a completely new paradigm on data which no other country can do," he said.

Nilekani, former Chairman of the Unique Identification Authority of India (UIDAI), said India, due to its "digital explosion", was on the verge of enormous change which would create massive opportunities.

Over the last eight years, India has built a very sophisticated stack of software tools which a billion people can access, he said.

"It is based on everybody having a unique ID, the Aadhaar number. You can use that for doing authentication wherever you are (using) your phone, you can use that for doing a KYC (Know Your Customer) which allows you to open a bank account or get a SIM card. It allows you to electronically sign and store documents and it allows to access your own data," he said.

Such systems were now available at a 'scale' in India, he said, adding the Aadhaar system on June 30 did four crore authentications even as the direct cash transfer system built using the unique ID has crossed two billion transactions in the last three years.

These were really "large national scale systems" that have been built in India and will allow creating a new class of solutions, that would be dramatically cheaper than anything being done today.

India was also building systems which were creating national level platforms for many things and the GST Network was a good example of this, he said.

"We have talked about the GST and its impact on a single market and so on but it is also a huge source of data.

"Because, for the first time in India, eight million businesses will be on one platform, because earlier those who paid excise duty or VAT, they will all be on one platform. So all the taxpayers in India, the business taxpayers who pay indirect tax, they have to file invoice line item level returns into the GST network.

"So if you have 8 million businesses in India who do 120 line items a month, we are talking about a minimum of one billion line items that are going to be recorded every month in the GST system.

"So suddenly you will have data on a billion transactions a month across the country for every product and service that is being transacted. This is a huge, huge move forward," he said.

This data will allow getting a real time sense of the economy, because there will be information on a daily or weekly basis whether the economy was growing or not and which regions were doing well and so on, he said.

Digital transactions can also be used to avail credit.

"Suddenly eight million businesses will become eligible for credit as companies will be able to demonstrate their performance, and there are many other such systems coming up," he said.

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Headline: Data has become the new oil, says Nilekani

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Over the last eight years, India has built a very sophisticated stack of software tools which a billion people can access, he said.

"It is based on everybody having a unique ID, the Aadhaar number. You can use that for doing authentication wherever you are (using) your phone, you can use that for doing a KYC (Know Your Customer) which allows you to open a bank account or get a SIM card. It allows you to electronically sign and store documents and it allows to access your own data," he said.

Such systems were now available at a 'scale' in India, he said, adding the Aadhaar system on June 30 did four crore authentications even as the direct cash transfer system built using the unique ID has crossed two billion transactions in the last three years.

These were really "large national scale systems" that have been built in India and will allow creating a new class of solutions, that would be dramatically cheaper than anything being done today.

India was also building systems which were creating national level platforms for many things and the GST Network was a good example of this, he said.

"We have talked about the GST and its impact on a single market and so on but it is also a huge source of data.

"Because, for the first time in India, eight million businesses will be on one platform, because earlier those who paid excise duty or VAT, they will all be on one platform. So all the taxpayers in India, the business taxpayers who pay indirect tax, they have to file invoice line item level returns into the GST network.

"So if you have 8 million businesses in India who do 120 line items a month, we are talking about a minimum of one billion line items that are going to be recorded every month in the GST system.

"So suddenly you will have data on a billion transactions a month across the country for every product and service that is being transacted. This is a huge, huge move forward," he said.

This data will allow getting a real time sense of the economy, because there will be information on a daily or weekly basis whether the economy was growing or not and which regions were doing well and so on, he said.

Digital transactions can also be used to avail credit.

"Suddenly eight million businesses will become eligible for credit as companies will be able to demonstrate their performance, and there are many other such systems coming up," he said. SA BN ABM

Date: 22nd July 2017

Publication: Edex Live

Edition: Online

Journalist: Johanna Deeksha

Headline: Data is the new oil and should be democratised to be available for everybody, says Nandan Nilekani

URL: <http://www.edexlive.com/live-now/2017/jul/21/data-is-the-new-oil-and-should-be-democratised-to-be-available-for-everybody-says-nandan-nilekani-870.html>

Data is the new oil and should be democratised to be available for everybody, says Nandan Nilekani



Nandan Nilekani was the Chief Guest at the Graduation Ceremony of IIT-M

A graduation ceremony is a university recognising its students for their wealth of knowledge and learning but at the IIT Madras convocation, the students were told that they had not learnt enough. "Learning to keep learning is the biggest lesson IIT can impart to you," said Nandan Nilekani, the Chief Guest at the ceremony.

Nilekani, himself a graduate from IIT Bombay, said that he wished he'd rather be a graduate sitting in the audience than be on stage, "I wish I was in your place because the pace of change in the world today is the fastest it has ever been. So many opportunities for innovation are arising constantly and it is easier now than ever for companies to enter new fields," he said.

Pointing out that almost everything these days is becoming digital and new systems and platforms are being created, Nilekani said that in the last 10 years there has been a high rate of automation. "Now since

new technologies are being invented, it is most essential for an employee to keep learning. You can just get a degree and say you know the subject, with constant change comes constant learning. You have to continuously keep re-learning," he explained.



Nilekani also said that with the fast pace of innovation it has become impossible to predict the future of tech or even businesses, so it's best to stay as updated as possible.

"Since Artificial Intelligence and other technologies, jobs that exist now will not exist in a few years. But you must remember you can take away jobs that can be done through automation but you can't take away the jobs where humans do better. Which is why quick learning and continuous learning is so essential," the Infosys co-founder said.

He said that in the last eight years India has had enormous digital exposure and had developed a sophisticated software environment. "Today, data is the new oil. Before oil used to be the basis of how the world worked but now data is the oil of the 21st century. But data should be democratised. It should not be something that only some pockets profit from," he explained.

Since Artificial Intelligence and other technologies, jobs that exist now will not exist in a few years

Nandan Nilekani, Co-founder, Infosys

He even spoke about his brainchild, the Aadhaar card and how it had changed the entire method in which our country works. "As on June 30, four crore authentication processed had taken place in one day, two billion transactions. Aadhaar allows you to access your own data too," he said.

As a final word of advice, Nilekani said that no matter what they do, the graduates should always aim to be on top of their game.

A total of 2263 degrees were awarded to the students this year and 1588 students were collecting it in person at the ceremony. Out of these 284 were women and 1304 were men, this also included 21 differently able students getting their degrees.

Date: 22nd July 2017

Publication: The Economic Times

Edition: Online

Journalist: NA

Headline: Data has become the new oil, says Nandan Nilekani

URL: <http://economictimes.indiatimes.com/tech/internet/data-has-become-the-new-oil-says-nandan-nilekani/articleshow/59703373.cms>

Data has become the new oil, says Nandan Nilekani

Chennai: Describing data as the "new oil", Infosys co-founder Nandan Nilekani today said India has a chance to build a completely new paradigm as he made a strong pitch for democratising data so that it is available to everybody and not just a few organisations.

"Data has become the new oil. Just like oil was the basis for transformation of the 20th century, data is the basis for 21st century.

"But it is very important that if data is the new oil, then data is democratised (and) that data is available to everybody to use," Nilekani said in his address at the 54th convocation of Indian Institute of Technology, Madras (IIT-M).

What kind of policies the country has on data is very important and it has to be made sure that all this "massive data that is going to get created is not just in a few pockets of organisations but everybody has access to that", he noted.

"In India, we have a chance to do that, thanks to the technology we have and what that means is that a consumer can get his own data to get a better loan, better health care, education. A business can use data to get better credit or better business.

"So therefore, if data is the new oil, and if we can restructure data to benefit every individual and every business, then we can lead to enormous amount of activity and economic growth. So we have a chance to build a completely new paradigm on data which no other country can do," he said.

Nilekani, former Chairman of the Unique Identification Authority of India (UIDAI), said India, due to its "digital explosion", was on the verge of enormous change which would create massive opportunities.

Over the last eight years, India has built a very sophisticated stack of software tools which a billion people can access, he said.

"It is based on everybody having a unique ID, the Aadhaar number. You can use that for doing authentication wherever you are (using) your phone, you can use that for doing a KYC (Know Your Customer) which allows you to open a bank account or get a SIM card. It allows you to electronically sign and store documents and it allows to access your own data," he said.

Such systems were now available at a 'scale' in India, he said, adding the Aadhaar system on June 30 did four crore authentications even as the direct cash transfer system built using the unique ID has crossed two billion transactions in the last three years.

These were really "large national scale systems" that have been built in India and will allow creating a new class of solutions, that would be dramatically cheaper than anything being done today.

India was also building systems which were creating national level platforms for many things and the GST Network was a good example of this, he said.

"We have talked about the GST and its impact on a single market and so on but it is also a huge source of data.

"Because, for the first time in India, eight million businesses will be on one platform, because earlier those who paid excise duty or VAT, they will all be on one platform. So all the taxpayers in India, the business taxpayers who pay indirect tax, they have to file invoice line item level returns into the GST network.

"So if you have 8 million businesses in India who do 120 line items a month, we are talking about a minimum of one billion line items that are going to be recorded every month in the GST system.

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Digital transactions can also be used to avail credit.

"Suddenly eight million businesses will become eligible for credit as companies will be able to demonstrate their performance, and there are many other such systems coming up," he said.

Date: 22nd July 2017

Publication: Skill Outlook

Edition: Online

Journalist: NA

Professor: Prof. Bhaskar Ramamurthi, Prof Ashok Jhunjunwala

Headline: IIT Madras 54th Convocation: A total of 2,263 degrees were awarded this year

URL: <http://skilloutlook.com/education/iit-madras-54th-convocation-total-2263-degrees-awarded-year>

IIT Madras 54th Convocation: A total of 2,263 degrees were awarded this year

Chennai, July 21, 2017: Indian Institute of Technology Madras (IIT Madras) celebrated its 54th Convocation today (21 July 2017) on campus. Mr Nandan Nilekani, Former Chairman, Unique Identification Authority of India and co-founder, Infosys, graced the occasion as Chief Guest. Dr. Pawan Goenka, Chairman, Board of Governors, IIT Madras and Managing Director, Mahindra & Mahindra, presided over the function.

Mr Nandan Nilekani presented prizes to the students while Prof. Bhaskar Ramamurthi, Director, IIT Madras, awarded degrees to the graduating students. A total of 2,263 degrees were awarded this year. 15 B.Tech Honours, 422 B.Tech, 422 M.Tech, 9 Dual-Degree (B.Tech Honours & M.Tech), 341 Dual-Degree B.Tech/M.Tech, 19 Dual-Degree MS/PhD including 2 for M.Tech/PhD dual degree, 140 M.Sc., 58 MBA, 36 MA, 175 MS and 257 PhD degrees were awarded this year. M.Tech/Ph.D dual degree and a joint PhD degree with the University of Passau, Germany were awarded for the first time this year.

Among students graduating this year IIT Madras had 2 foreign national students, one from M Tech and one from MSc, who were awarded their degrees. As is the custom of IIT Madras, the new graduates took their pledge after receiving their degree.

Presenting a report on the Institute's performance in the last academic year, Prof. Bhaskar Ramamurthi, Director, IIT-Madras, said, "The past academic year has been very rewarding for IIT-M. It has not only sustained the Number 1 ranking among Engineering Institutes in the NIRF ranking for the second year running, but has been ranked in the 2nd position for overall performance among all universities in India".

IIT Madras is proud that it has been recognized with the prestigious 2017 IEEE Spectrum Technology in the Service of Society Award for the Solar-DC Micro-grid Technology pioneered by Prof Ashok Jhunjunwala.

IIT Madras has been active in furthering its international collaborations. During 2016-2017, it signed 35 Memoranda of Understanding (MoUs) with eminent international universities worldwide to facilitate student exchanges and faculty collaborations, taking the total number of active MoUs to 215 and Joint Degree Programs (JDP) to 15 and Joint Supervision Programs to 50.

A total of 769 students were placed through Placement Office, of whom a large fraction 364 joined core engineering companies. The internship office has enabled placement of 296 third year students into internships in 86 companies in the year under review. Focus was placed on contacting various Fortune 500 and other leading companies.

Addressing the graduating students, Mr Nandan Nilekani said, "Industry by industry dramatic changes are happening and we have to be prepared for a world where there will be a lot of change. The good news for you students is that you are graduating from an institute like IIT Madras. But the bad news is that you can't stop learning because you can't predict what the future requirements will be. Your biggest take-away from IIT Madras is going to be learning to learn".

He further added, "Data is the new oil, it will be the business of 21st century. But it's important that it is available for everyone to use and not restricted to a few pockets so that a common consumer can use it for varied requirements like better healthcare, better choices and so on".

Out of the 2,263 degrees being awarded, 1,588 students are collecting in person. Out of these, there are 284 women and 1,304 men. There are also 21 differently-abled students getting degrees.

Date: 22nd July 2017

Publication: India TV

Edition: Online

Journalist: NA

Headline: Data has become the new oil, says Nandan Nilekani

URL: <http://www.indiatvnews.com/business/india-data-has-become-the-new-oil-says-nandan-nilekani-392524>

Data has become the new oil, says Nandan Nilekani

Describing data as the "new oil", Infosys co-founder Nandan Nilekani today said India has a chance to build a completely new paradigm as he made a strong pitch for democratising data so that it is available to everybody and not just a few organisations.

"Data has become the new oil. Just like oil was the basis for transformation of the 20th century, data is the basis for 21st century. But it is very important that if data is the new oil, then data is democratised (and) that data is available to everybody to use," Nilekani said in his address at the 54th convocation of Indian Institute of Technology, Madras (IIT-M).

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"In India, we have a chance to do that, thanks to the technology we have and what that means is that a consumer can get his own data to get a better loan, better health care, education. A business can use data to get better credit or better business. So therefore, if data is the new oil, and if we can restructure data to benefit every individual and every business, then we can lead to enormous amount of activity and economic growth. So we have a chance to build a completely new paradigm on data which no other country can do," he said.

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Digital transactions can also be used to avail credit. "Suddenly eight million businesses will become eligible for credit as companies will be able to demonstrate their performance, and there are many other such systems coming up," he said.

Date: 22nd July 2017

Publication: Vikatan

Edition: Online

Journalist: NA

Headline: Nandan Nilekani explains benefits of Aadhar and GST

URL: <http://www.vikatan.com/news/miscellaneous/96457-nandan-nilekani-explain-benefits-of-aadhaar-and-gst.html>

“ஆதார், ஜி.எஸ்.டி- யால் என்னவெல்லாம் நன்மை?” - விளக்கும் நந்தன் நீல்கேனி

நாட்டையே தற்போது பரபரப்பாக வைத்திருக்கும் ஆதார் கார்டு திட்டத்தின் முதல் விதையைத் தூவியவர், நந்தன் நீல்கேனி. இன்ஃபோசிஸ் நிறுவனத்தின் இணை நிறுவனர், ஆதார் நிறுவனத்தின் முன்னாள் சேர்மன், கடந்த நாடாளுமன்ற தேர்தலில் காங்கிரஸ் கட்சியின் பெங்களூரு தெற்கு தொகுதி வேட்பாளர் என பன்முகம் கொண்ட இவர், மெட்ராஸ் ஐ.ஐ.டி.,யில் நேற்று நடைபெற்ற பட்டமளிப்பு விழாவில் சிறப்பு விருந்தினராக கலந்துகொண்டார். அப்போது மாணவர்களிடையே உரையாற்றிய அவர், ஆதார், ஜி.எஸ்.டி, ஆட்டோமேஷன் என பலதுறைகளை தொட்டு பேசினார். அப்படி மாணவர்களுக்கு அவர் அளித்த ட்ரெண்டி அட்வைஸ் இதோ...



"சென்னை ஐ.ஐ.டி.,யின் பட்டமளிப்பு விழாவிற்கு வந்ததற்காக மகிழ்ச்சியடைகிறேன்.

நான் சுமார் 30 ஆண்டுகள் ஸ்டார்ட்அப்பில் பணிபுரிந்திருக்கிறேன். அதுமட்டுமில்லாமல் அரசின் திட்டங்களில் கூட ஸ்டார்ட் அப்புகளில்தான் நான் பணியாற்றினேன். எனவே என் வாழ்நாள் முழுவதும் ஸ்டார்ட் அப்பிலேயே பணிபுரிந்திருக்கிறேன் என சொல்லலாம். இந்த துறையில் தற்போது நடக்கும் அளவிற்கு மிகப்பெரிய மாற்றங்கள் எப்போதுமே நடந்ததில்லை. இன்று தொழில்நுட்பங்களால் பல சவால்களைச் சந்தித்து வருகிறோம்.

இன்று உலகில் சுமார் 2.5 பில்லியன் மக்களிடம் ஸ்டார்ட்அப்புகள் இருக்கின்றன. இதுமட்டுமின்றி, அனைத்து டிவைஸ்களும் ஒன்றோடு ஒன்று இணைக்கப்பட்டதாகவும் இருக்கின்றன. இப்படி மட்டுமே உலகில் தற்போது சுமார் 100 பில்லியன் டிவைஸ்கள் ஒன்றோடு ஒன்று கனெக்ட் செய்யப்பட்டிருக்கின்றன.. இதெல்லாம் வெறும் ஆரம்பம்தான். சரி... இவையெல்லாம் என்ன செய்யும்? நிறுவனங்கள் புதுப்புது தொழில்களை செய்வதற்கு இவை ஆதாரமாக அமையும். எனக்கு முன்னாள் பேசிய கோயங்கா, ஆட்டோமொபைல் துறையை பற்றி இங்கே குறிப்பிட்டிருந்தார். ஆட்டோமொபைல் துறையானது பல வருடங்களாக, சில நிறுவனங்களின் கையில் மட்டுமே இருக்கிறது. ஆட்டோமொபைல் உலகில் இந்த நிறுவனங்கள் மட்டுமே ஆதிக்கம் செலுத்தி வந்தன. ஆனால் எலெக்ட்ரிக் கார்கள், டிரைவ்லஸ் கார்கள் போன்றவையெல்லாம் வந்தபின்னர் ஆட்டோமொபைல் துறை நிறைய மாற்றங்களைக் கண்டுவருகிறது.

நீங்கள் வருங்காலத்தில் என்ன வேலைக்கு போவீர்கள் என்பதை யூகிக்கவே முடியாது. எந்த மாதிரியான நிறுவனங்கள் வருங்காலங்களில் இருக்கும் என்பதையும் நம்மால் தற்போது யூகிக்க முடியாது.

இந்த மாற்றம் என்பது ஆட்டோமொபைல் துறையில் மட்டுமில்லை. பல துறைகளில் நடந்து வருகிறது. உதாரணமாக விளம்பர நிறுவனங்களை எடுத்துக்கொள்ளுங்கள். கடந்த பத்து வருடங்களில் எந்தளவிற்கு மாற்றங்களைக் கண்டுவிட்டது பாருங்கள்? இன்று பெரும்பாலான விளம்பரங்கள் டிஜிட்டல்மயமாகிவிட்டன. இப்படி ஒவ்வொரு துறையிலும் மாற்றங்கள் நடந்துவருகின்றன. புதிய சாதனையாளர்கள், புதிய தொழில்நுட்பங்கள் என அடிக்கடி மாறுதல்களைச் சந்தித்து வரும் ஒரு புதுமையான வேளையில் நாம் தற்போது இருக்கிறோம்.

ஐ.ஐ.டி மாணவர்களாகிய உங்களுக்கு ஒரே ஒரு நற்செய்தி என்னவென்றால், இன்றுடன் உங்கள் கல்லூரி வாழ்க்கை முடிந்துவிட்டது. அதாவது ஐ.ஐ.டி.,யில் உங்கள் கல்வி முடிவுக்கு வந்துவிட்டது. ஆனால் சோகமான விஷயம் என்ன தெரியுமா? வாழ்க்கையில் உங்கள் கல்வி இன்னும் முடியவில்லை. நீங்கள் கற்றுக்கொள்வதை உங்களால் நிறுத்தவே முடியாது. வாழ்க்கை முழுவதுமே கற்க வேண்டிய கட்டாயம் இருக்கிற ஒரு யுகத்தில் நாம் நுழைந்திருக்கிறோம். ஏனெனில் நீங்கள் வருங்காலத்தில் என்ன வேலைக்கு போவீர்கள் என்பதை யூகிக்கவே முடியாது. எந்த மாதிரியான நிறுவனங்கள் வருங்காலங்களில் இருக்கும் என்பதையும் நம்மால் தற்போது யூகிக்க முடியாது. சுயதொழில் முனைவோர்கள் வருங்காலங்களில் என்ன மாதிரியான பிசினஸ் செய்வார்கள் என்பதையும் நம்மால் யூகிக்கமுடியாது. எனவே தற்போது நீங்கள் என்ன படித்திருந்தாலும், வருங்காலங்களில் நிறைய படிக்க வேண்டியிருக்கும். குறிப்பிட்ட கால இடைவெளிகளில் உங்கள் கற்றல் மாறிக்கொண்டே இருக்கும். எனவே வாழ்க்கை முழுவதும் புதிய விஷயங்களைக் கற்றுக்கொள்வதற்கு தயாராக இருங்கள். இந்த ஐ.ஐ.டி.,யில் இருந்து எடுத்துசெல்ல வேண்டியது வெறும் பாடங்களை மட்டும் அல்ல. எப்போதும் புதிய விஷயங்களை கற்க தயாராக இருக்கும் மனநிலையைத்தான் இங்கிருந்து எடுத்து செல்லவேண்டும்.



தற்போது இருக்கும் வேலைகளில் மிகப்பெரிய மாற்றங்களை ஏற்படுத்தக்கூடியதாக இருக்கப்போவது ஆட்டோமேஷன்தான். கடந்த சில வருடங்களாக மெஷின் லேர்னிங், ஆர்ட்டிஃபிஷியல் இன்டலிஜென்ஸ், டீப் லேர்னிங், நியூரல் நெட்வொர்க்ஸ் போன்றவை அனைத்தும் வேகமாக வளர்ந்துவருகிறது. இவை அனைத்துமே இயந்திரங்களை மேலும் மேலும் ஸ்மார்ட்டாக மாற்றும்பவை. இந்த மாற்றங்கள் தொடர்ந்து நடந்துகொண்டேதான் இருக்கும். எனவே இன்று இருக்கும் பணிகள் எதுவும் நாளை இருக்காது. எனவே வாழ்நாள் முழுவதும் கற்றுக்கொண்டே இருக்க வேண்டும் என்பதை மட்டும் நினைவில் வைத்துக்கொள்ளுங்கள்.

இதில் இன்னொரு முக்கியமான விஷயமும் இருக்கிறது. அதாவது, மனிதர்கள் செய்துவந்த பல பணிகளை இயந்திரங்கள் ஆக்கிரமித்துவிட்டன. ஆனால் மனிதர்களால் மட்டுமே செய்ய முடிகிற வேலைகளை எந்த இயந்திரமும் ஆக்கிரமிக்க முடியாது. மென்திறன்களை அதற்கு உதாரணமாக சொல்லலாம். உணர்ச்சிகள், குழுவாக வேலை செய்யும் திறன், தலைமைப் பண்பு, இலக்குகளை நிர்ணயித்து செயல்படுத்தல் போன்றவற்றை எல்லாம், எப்போதும் ஆட்டோமேஷன் ஆக்கிரமிக்கவே முடியாது அல்லவா? எனவே இதுபோன்ற ஆளுமை திறன்களை நன்கு வளர்த்துக்கொள்ளுங்கள்.

இந்தியாவைப் பொறுத்தவரை தொழில்நுட்பத்தில் மிகப்பெரிய மாற்றங்களைக் கண்டுவருகிறது. இந்த தொழில்நுட்பம் அனைத்து மக்களையும் சென்று சேர்வதற்கான வசதிகளும் நம்மிடம் இருக்கின்றன. ஆதார் மூலமாக, நடக்கும் பரிவர்த்தனைகள், பெறும் பயன்கள் கூட இதில்தான் சேரும். தற்போது உங்கள் மொபைலை பயன்படுத்தியே வங்கிகணக்கு துவங்க முடியும், ஆவணங்களை இணையத்தில் சேமித்து வைக்க முடியும், தேவைப்படும் நேரத்தில் எல்லாம் உங்கள்தகவல்களை எளிதாகப் பெறமுடியும். ஆதார் மூலமாகவே இத்தனை விஷயங்கள் நடக்கின்றன. கடந்த ஜூன் 30-ம் தேதி மட்டும் ஆதார் மூலமாக 4 கோடி முறை பாதுகாப்பு பரிசோதனைகள் நடைபெற்றுள்ளன. ஆதார் மூலமாக பணம் பரிமாற்றம் செய்யும் வசதி அறிமுகம் செய்தபின்பு 2 பில்லியன் பணவர்த்தனைகள் கடந்த மூன்று வருடங்களில் நடந்திருக்கின்றன. இதுபோன்ற தொழில்நுட்பங்கள் தற்போது ஏன் முக்கியத்துவம் பெறுகின்றன என்றால், இவைதான் தொழில்துறையில் பல்வேறு விஷயங்களை எளிதாக்கியிருக்கிறது. இந்த புதிய தொழில்நுட்பங்களை நிறுவனங்கள் பயன்படுத்துவதன் மூலமாக, பல நிறுவனங்கள் வணிகம் செய்யும் விதத்தையே மாற்றியிருக்கின்றன.

மிகப்பெரிய அளவிலான கட்டமைப்புகள் மூலமாக இவற்றை செய்வதன் மூலம் இன்னும் நிறைய நன்மைகளை தேசிய அளவில் நம்மால் பெறமுடியும். அதற்கு உதாரணம்தான் ஜி.எஸ்.டி நெட்வொர்க். இன்று பலரும் ஜி.எஸ்.டி., யின்பாதகங்கள் பற்றி மட்டுமே பேசிக்கொண்டிருக்கிறார்கள். ஆனால் ஜி.எஸ்.டி மூலமாக நமக்கு நிறைய டேட்டா கிடைக்கவிருக்கிறது. இந்தியாவில் முதல்முறையாக 8 பில்லியன் பிசினஸ்கள், ஒரே

அமைப்பின் கீழே இயங்கப்போகின்றன. அனைத்து வரிகளையும் ஒரே அமைப்பின் கீழே செலுத்தப் போகிறார்கள். இதனால் மறைமுக வரி செலுத்துபவர்களின் விவரங்கள் அனைத்துமே முறையாகப் பதிவு செய்யப்படும். எந்த பொருள் வாங்குகிறார்கள், எந்த சேவைக்கு வரி செலுத்துகிறார்கள் என்பதைக்கூட ஜி.எஸ்.டி நெட்ஹொர்க் மூலமாக நம்மால் பதிவு செய்யமுடியும். எனவே நாட்டில் நடக்கும் பல மில்லியன் பரிவர்த்தனைகள் ஜி.எஸ்.டி மூலம் பதிவு செய்யப்படும். இது நாட்டில் மிகப்பெரிய மாற்றத்தை ஏற்படுத்தக்கூடியது. முதலில் நம்மால் நாட்டின் துல்லியமான பொருளாதார நிலையை இந்த டேட்டாவின் உதவியுடன் அறிந்துகொள்ள முடியும். நாள்தோறும், வாரந்தோறும் நம்மால் நம் நாட்டின் பொருளாதார நிலையை நன்கு ஆய்வு செய்யமுடியும். எந்த பொருள் அதிகம் விற்கிறது, எந்த மாநிலம் பொருளாதாரத்தில் வளர்கிறது எனப் பல்வேறு விஷயங்களை நம்மால் எளிதில் கணிக்க முடியும். மேலும் நிறுவனங்களும் தங்களின் வர்த்தகத்தை துல்லியமாக மதிப்பீடு செய்யமுடியும். இது ஜி.எஸ்.டி.,யில் மட்டுமல்ல. இன்னும் சில விஷயங்களிலும் நடக்கிறது. எலக்ட்ரானிக் டோலிங் சிஸ்டம் மூலம் மட்டும் மாதந்தோறும் 7 மில்லியன் பரிவர்த்தனைகள் நடக்கின்றன. ஆன்லைன் பில்லிங் சேவைகளும் இதேபோல செயல்படுகின்றன. இவை பொருளாதார அளவிலும் சரி; சமூக அளவிலும் சரி; பல விஷயங்களை சிறப்பாக செய்ய உதவும்.

20-ம் நூற்றாண்டின் மாற்றங்களுக்கு எண்ணெய்வளம்தான் அடித்தளமிட்டது. அப்படி 21-ம் நூற்றாண்டின் மாற்றங்களுக்கு இந்த டேட்டாதான் அடித்தளமிடப்போகிறது. ஆம். டேட்டாதான் இனி புதிய எண்ணெய். இதுபோன்ற புதிய தொழில்நுட்பங்கள், நிறைய புதிய நிறுவனங்கள் உருவாகவும், ஏற்கெனவே இருக்கும் நிறுவனங்கள் இன்னும் மேம்படவும் வாய்ப்புகளை உருவாக்குகின்றன. 20-ம் நூற்றாண்டின் மாற்றங்களுக்கு எண்ணெய்வளம்தான் அடித்தளமிட்டது. அப்படி 21-ம் நூற்றாண்டின் மாற்றங்களுக்கு இந்த டேட்டாதான் அடித்தளமிடப்போகிறது. ஆம். டேட்டாதான் இனி புதிய எண்ணெய். ஆனால் எண்ணெய்க்கும், டேட்டாவுக்கும் இருக்கும் ஒரு முக்கியமான வித்தியாசம் என்னவென்றால் டேட்டா எல்லாருக்கும் கிடைக்கப்போகிறது. தனிநபர் ஒருவர்தன்னுடைய டேட்டாவை லோன் வாங்க, மருத்துவ வசதி பெற, நல்ல கல்வி பெற பயன்படுத்தலாம். அதேபோல நிறுவனங்களும் இந்த டேட்டாவை வணிக ரீதியில் நல்ல விதமாகப் பயன்படுத்தலாம். எனவே இந்த டேட்டா தனிநபர்களுக்கும் சரி... நிறுவனங்களுக்கும் சரி... நிறைய நல்ல மாற்றங்களைத் தரப்போகிறது.

நிறைய மாற்றங்கள் நடந்துவரும் ஒரு யுகத்தில் நீங்கள் இருக்கிறீர்கள். எனவே அந்த மாற்றங்களை ஏற்றுக்கொள்ளவும், வாழ்நாள் முழுவதும் கற்பதற்கான மனநிலையை உருவாக்கிக்கொள்ளவும், உங்களுடைய ஆளுமை திறன்களை வளர்த்துக்கொள்ளவும் தயாராக இருங்கள். அப்படி செய்தால், நீங்கள் செய்யும் எந்தவொரு விஷயத்திலும் உச்சத்தில் இருப்பீர்கள்!

Date: 22nd July 2017

Publication: Business World

Edition: Online

Journalist: NA

Headline: Data Is The New Oil, Says Nandan Nilekani

URL: <http://www.businessworld.in/article/Data-Is-The-New-Oil-Says-Nandan-Nilekani/22-07-2017-122626/>

Data Is The New Oil, Says Nandan Nilekani

Describing data as the “new oil”, Infosys co-founder Nandan Nilekani on Friday (21 July) said India has a chance to build a completely new paradigm as he made a strong pitch for democratising data so that it is available to everybody and not just a select few organisations.

“Data has become the new oil. Just like oil was the basis for transformation of the 20th century, data is the basis for 21st century. But it is very important that if data is the new oil, then data is democratised (and) that data is available to everybody to use,” Nilekani said in his address at the 54th convocation of IIT Madras.

What kind of policies the country has on data is very important and it has to be made sure that all this “massive data that is going to get created is not just in a few pockets of organisations but everybody has access to that”, he noted.

“In India, we have a chance to do that, thanks to the technology we have and what that means is that a consumer can get his own data to get a better loan, better health care, education. A business can use data to get better credit or better business,” he said.

Date: 22nd July 2017

Publication: Money Control

Edition: Online

Journalist: NA

Headline: Nandan Nilekani: Data has become the new oil

URL: <http://www.moneycontrol.com/news/business/nandan-nilekani-data-has-become-the-new-oil-2332825.html>

Nandan Nilekani: Data has become the new oil

Describing data as the "new oil", Infosys co-founder Nandan Nilekani today said India has a chance to build a completely new paradigm as he made a strong pitch for democratising data so that it is available to everybody and not just a few organisations.

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"In India, we have a chance to do that, thanks to the technology we have and what that means is that a consumer can get his own data to get a better loan, better health care, education. A business can use data to get better credit or better business.

"So therefore, if data is the new oil, and if we can restructure data to benefit every individual and every business, then we can lead to enormous amount of activity and economic growth. So we have a chance to build a completely new paradigm on data which no other country can do," he said.

Nilekani, former Chairman of the Unique Identification Authority of India (UIDAI), said India, due to its "digital explosion", was on the verge of enormous change which would create massive opportunities.

Over the last eight years, India has built a very sophisticated stack of software tools which a billion people can access, he said.

"It is based on everybody having a unique ID, the Aadhaar number. You can use that for doing authentication wherever you are (using) your phone, you can use that for doing a KYC (Know Your Customer) which allows you to open a bank account or get a SIM card. It allows you to electronically sign and store documents and it allows to access your own data," he said.

Such systems were now available at a 'scale' in India, he said, adding the Aadhaar system on June 30 did four crore authentications even as the direct cash transfer system built using the unique ID has crossed two billion transactions in the last three years.

These were really "large national scale systems" that have been built in India and will allow creating a new class of solutions, that would be dramatically cheaper than anything being done today.

India was also building systems which were creating national level platforms for many things and the GST Network was a good example of this, he said.

"We have talked about the Goods and Services Tax (GST) and its impact on a single market and so on but it is also a huge source of data.

"Because, for the first time in India, eight million businesses will be on one platform, because earlier those who paid excise duty or VAT, they will all be on one platform. So all the taxpayers in India, the business taxpayers who pay indirect tax, they have to file invoice line item level returns into the GST network .

"So if you have 8 million businesses in India who do 120 line items a month, we are talking about a minimum of one billion line items that are going to be recorded every month in the GST system.

"So suddenly you will have data on a billion transactions a month across the country for every product and service that is being transacted. This is a huge, huge move forward," he said.

This data will allow getting a real time sense of the economy, because there will be information on a daily or weekly basis whether the economy was growing or not and which regions were doing well and so on, he said.

Digital transactions can also be used to avail credit.

"Suddenly eight million businesses will become eligible for credit as companies will be able to demonstrate their performance, and there are many other such systems coming up," he said.

Date: 22nd July 2017

Publication: UNI

Edition: Online

Journalist: NA

Headline: 54th Convocation of IIT Madras

URL: <http://www.uniindia.com/photoes/138986.html>



CHENNAI, JULY 21 (UNI):-Nandan Nilekani, Former Chairman, Unique Identification Authority of India and Co-Founder, Infosys presenting degree certificate to a student at the 54th Convocation of IIT Madras, in Chennai on Friday.
UNI PHOTO-121U

Date: 22nd July 2017

Publication: India Education Diary

Edition: Online

Journalist: NA

Professor: Prof. Bhaskar Ramamurthi

Headline: 54th Convocation held at IIT Madras

URL: <https://indiaeducationdiary.in/54th-convocation-held-iit-madras/>

54th Convocation held at IIT Madras



Chennai: Indian Institute of Technology Madras (IIT Madras) celebrated its 54th Convocation today, 21st July, 2017, on Campus. Shri. Nandan Nilekani, Former Chairman, Unique Identification Authority of India and co-founder, Infosys, graced the occasion as Chief Guest. Dr. Pawan Goenka, Chairman, Board of Governors, IIT Madras and Managing Director, Mahindra & Mahindra, presided over the function.

Shri. Nandan Nilekani presented prizes to the students while Prof. Bhaskar Ramamurthi, Director, IIT Madras, awarded degrees to the graduating students. A total of 2,263 degrees were awarded this year. 15 B.Tech Honours, 422 B.Tech, 422 M.Tech, 9 Dual-Degree (B.Tech Honours & M.Tech), 341 Dual-Degree B.Tech/M.Tech, 19 Dual-Degree MS/PhD including 2 for M.Tech/PhD dual degree, 140 M.Sc., 58 MBA, 36 MA, 175 MS and 257 PhD degrees were awarded this year. M.Tech/Ph.D dual degree and a joint PhD degree with the University of Passau, Germany were awarded for the first time this year.

Presenting a report on the Institute's performance in the last academic year, Prof. Bhaskar Ramamurthi, Director, IIT-Madras, said, "The past academic year has been very rewarding for IIT-M. It has not only sustained the Number 1 ranking among Engineering Institutes in the NIRF ranking for the second year running, but has been ranked in the 2nd position for overall performance among all universities in India".

IIT Madras is proud that it has been recognized with the prestigious 2017 IEEE Spectrum Technology in the Service of Society Award for the Solar-DC Micro-grid Technology pioneered by Prof Ashok Jhunjhunwala.

"IIT Madras has, in order to address the needs of our country in emerging areas as well as meet the aspirations of our students, introduced an upgrade path for our undergraduates to an M.Tech Degree in the emerging interdisciplinary areas of Data Sciences, Materials and Nano Technology, Biomedical Engineering, computational Engineering and Energy Systems", said Prof. Bhaskar.

IIT Madras has been active in furthering its international collaborations. During 2016-2017, it signed 35 Memoranda of Understanding (MoUs) with eminent international universities worldwide to facilitate student exchanges and faculty collaborations, taking the total number of active MoUs to 215 and Joint Degree Programs (JDP) to 15 and Joint Supervision Programs to 50.

A total of 769 students were placed through Placement Office, of whom a large fraction 364 joined core engineering companies. The internship office has enabled placement of 296 third year students into internships in 86 companies in the year under review. Focus was placed on contacting various Fortune 500 and other leading companies.

Addressing the graduating students, Shri. Nandan Nilekani said, "Industry by industry dramatic changes are happening and we have to be prepared for a world where there will be a lot of change. The good news for you students is that you are graduating from an institute like IIT Madras. But the bad news is that you can't stop learning because you can't predict what the future requirements will be. Your biggest take-away from IIT Madras is going to be learning to learn".

He further added, "Data is the new oil, it will be the business of 21st century. But it's important that it is available for everyone to use and not restricted to a few pockets so that a common consumer can use it for varied requirements like better healthcare, better choices and so on".

Out of the 2,263 degrees being awarded, 1,588 students are collecting in person. Out of these, there are 284 women and 1,304 men. There are also 21 differently-abled students getting degrees.

Date: 22nd July 2017

Publication: DNA

Edition: Online

Journalist: NA

Headline: Data is the new oil, says Infosys co-founder Nandan Nilekani

URL: <http://www.dnaindia.com/india/report-data-is-the-new-oil-says-infosys-co-founder-nandan-nilekani-2510065>

Data is the new oil, says Infosys co-founder Nandan Nilekani

Describing data as the "new oil", Infosys co-founder Nandan Nilekani today said India has a chance to build a completely new paradigm as he made a strong pitch for democratising data so that it is available to everybody and not just a few organisations.

"Data has become the new oil. Just like oil was the basis for transformation of the 20th century, data is the basis for 21st century.

"But it is very important that if data is the new oil, then data is democratised (and) that data is available to everybody to use," Nilekani said in his address at the 54th convocation of Indian Institute of Technology, Madras (IIT-M).

What kind of policies the country has on data is very important and it has to be made sure that all this "massive data that is going to get created is not just in a few pockets of organisations but everybody has access to that", he noted.

"In India, we have a chance to do that, thanks to the technology we have and what that means is that a consumer can get his own data to get a better loan, better health care, education. A business can use data to get better credit or better business.

"So therefore, if data is the new oil, and if we can restructure data to benefit every individual and every business, then we can lead to enormous amount of activity and economic growth. So we have a chance to build a completely new paradigm on data which no other country can do," he said.

Nilekani, former Chairman of the Unique Identification Authority of India (UIDAI), said India, due to its "digital explosion", was on the verge of enormous change which would create massive opportunities.

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India was also building systems which were creating national level platforms for many things and the GST Network was a good example of this, he said.

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"So if you have 8 million businesses in India who do 120 line items a month, we are talking about a minimum of one billion line items that are going to be recorded every month in the GST system.

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Date: 21st July 2017

Channel: DD Podhgai

Edition: Electronic

Journalist: NA

Professor: Prof. Bhaskar Ramamurthi

Headline: Convocation at IIT-Madras



Date: 21st July 2017

Channel: News 7

Edition: Electronic

Journalist: Kirthika Kannan

Professor: Prof. Bhaskar Ramamurthi

Headline: Convocation at IIT-Madras



Date: 22nd July 2017
Publication: First Post
Edition: Online
Journalist: NA

Headline: IIT-Madras holds 54th convocation, Nandan Nilekani among guests in attendance [Photos]

URL: <http://www.firstpost.com/photos/india-gallery/iit-madras-holds-54th-convocation-nandan-nilekani-among-guests-in-attendance-3843495.html>

IIT-Madras holds 54th convocation, Nandan Nilekani among guests in attendance [Photos]

FP Staff Jul. 22 2017 16:24:22 IST





Nilekani also made a strong pitch for democratising data so that it is available to everybody and not just a few organisations. India has a chance to build a completely new paradigm, he added. PTI



Nilekani also asked the students to be prepared for a world with changes. Describing the importance of "digital explosion" he said, data has become the new oil. Just like oil was the basis for transformation of the 20th century, data is the basis for 21st century," he added. PTI



Date: 22nd July 2017

Publication: The Financial Express

Edition: Online

Journalist: NA

Headline: Infosys cofounder Nandan Nilekani: India needs a policy on data

URL: <http://www.financialexpress.com/economy/infosys-cofounder-nandan-nilekani-india-needs-a-policy-on-data/775121/>

Infosys cofounder Nandan Nilekani: India needs a policy on data

Former UIDAI Chairman Nandan Nilekani said that India needed a data protection law "as soon as possible" as it is a "fundamental thing" so that the users can demand from the domestic or foreign companies to share their data when needed.

Former UIDAI Chairman Nandan Nilekani on Saturday said that India needed a data protection law "as soon as possible" as it is a "fundamental thing" so that the users can demand from the domestic or foreign companies to share their data when needed. "This is not a technology problem, but a policy problem," Nilekani said here at the Delhi Economics Conclave 2017. Former Attorney General Mukul Rohatgi had said earlier that the government was planning to come out with a data protection policy this year. The need for the law was felt after online messaging service WhatsApp changed its policy of non-sharing of data for its users after acquisition by Facebook in 2016 to permit sharing of the attributes of its users for advertisement targeting.

Speaking at the different session former chairman of UIDAI Nandan Nilekani said data is the oil of the 21st century. Noting that data created huge businesses and data companies have unique scale advantages, Nilekani said, "India needs a policy on data." He also stressed that the government should make law to give people control of their own data. "India will go from data poor to data rich in the next three years. India has a unique digital infrastructure," PTI quoted Nilekani as saying.

On Friday, describing data as the "new oil", Infosys co-founder Nandan Nilekani today said India has a chance to build a completely new paradigm as he made a strong pitch for democratising data so that it is available to everybody and not just a few organisations. "Data has become the new oil. Just like oil was the basis for transformation of the 20th century, data is the basis for 21st century.

"But it is very important that if data is the new oil, then data is democratised (and) that data is available to everybody to use," Nilekani said in his address at the 54th convocation of Indian Institute of Technology, Madras (IIT-M).

Date: 22nd July 2017

Channel: Malai Murasu

Professor: Prof. Bhaskar Ramamurthi

Headline: Convocation at IIT-Madras



Date: 26th July 2017

Publication: Careers 360

Edition: Online

Journalist: Harshita Das

Professor: Prof. Bhaskar Ramamurthi & Prof Ashok Jhunjhunwala

Headline: IIT Madras celebrates 54th convocation

URL: <https://engineering.careers360.com/articles/iit-madras-celebrates-54th-convocation>

IIT Madras celebrates 54th convocation



The Indian Institute of Technology Madras (IIT Madras) celebrated its 54th convocation on July 21, 2017 at its campus. Former Chairman, Unique Identification Authority of India and co-founder of Infosys, Nandan Nilekani graced the occasion as the Chief Guest. Dr. Pawan Goenka, Chairman, Board of Governors, IIT Madras and Managing Director, Mahindra & Mahindra also presided over the function.

Prof. Bhaskar Ramamurthi, Director, IIT Madras awarded degrees to the graduating students while Nilekani awarded prizes to the students.

A total of 2,263 degrees were awarded this year. Out of which 15 B.Tech (Honours), 422 B.Tech, 422 M.Tech, nine Dual-Degree (B.Tech Honours & M.Tech), 341 Dual-Degree (B.Tech & M.Tech), 19 Dual-Degree (MS & PhD) including two Dual Degree for M.Tech & PhD, 140 M.Sc., 58 MBA, 36 MA, 175 MS and 257 PhD degrees were awarded this year. M.Tech/Ph.D dual degree and a joint PhD degree with the University of Passau, Germany were awarded for the first time this year.

Presenting a report on the Institute's performance in the last academic year, Prof. Bhaskar Ramamurthi said, "The past academic year has been very rewarding for IIT-M. It has not only sustained the Number 1 ranking among Engineering Institutes in the NIRF ranking for the second year running but has been ranked in the 2nd position for overall performance among all universities in India."

Prof. Ramamurthi added, "IIT Madras in order to address the needs of our country in emerging areas as well as meet the aspirations of our students, introduced an upgrade path for our undergraduates to an M.Tech Degree in the emerging interdisciplinary areas of Data Sciences, Materials and Nano Technology, Biomedical Engineering, computational Engineering and Energy Systems."

IIT Madras has been recognised with the 2017 IEEE Spectrum Technology in the Service of Society Award for the Solar-DC Micro-grid Technology pioneered by Prof Ashok Jhunjhunwala. IIT Madras has been active in furthering its international collaborations. During 2016-2017, the institute has signed 35 Memorandums of Understanding (MoUs) with international universities worldwide to facilitate student exchanges and faculty collaborations, taking the total number of active MoUs to 215 and Joint Degree Programs (JDP) to 15 and Joint Supervision Programs to 50.

Addressing the graduating students, Nilekani said, "Industry by industry dramatic changes are happening and we have to be prepared for a world where there will be a lot of change. The good news for you students is that you are graduating from an institute like IIT Madras. But the bad news is that you can't stop learning because you can't predict what the future requirements will be. Your biggest take-away from IIT Madras is going to be learning to learn."

He further added, "Data is the new oil, it will be the business of 21st century. But it's important that it is available for everyone to use and not restricted to a few pockets so that a common consumer can use it for varied requirements like better healthcare, better choices and so on".

Out of the 2,263 degrees being awarded, 1,588 students collected their degrees in person. Out of these, there were 284 women and 1,304 men. There were also 21 differently-abled students. A total of 769 students were placed through Placement Office, of whom a large fraction 364 joined core engineering companies.

**IIT Madras is an industry friendly
Institute**

Date: 8th July 2017

Publication: The New Indian Express

Edition: Chennai

Page no.: 2

Journalist: SV Krishna Chaitanya

Professor: Prof. Gitakrishnan Ramadurai

Headline: Coming soon: Intelligent travellers' guide

URL: <http://www.newindianexpress.com/cities/chennai/2017/jul/08/coming-soon-intelligent-travellers-guide-1625742.html>

Coming soon: Intelligent travellers' guide

Special system will provide real-time, minute-by-minute updates & allow police to regulate traffic better

SV KRISHNA CHAITANYA @ Chennai

BY the end of the month, Chennai Traffic Police will be equipped with an Advanced Traveller Information System (ATIS) that would provide a real-time and minute-by-minute update on traffic congestion. It would allow the police to monitor and regulate traffic better. The public will be able to seek information on delay, travel time and alternative routes via a web-based portal.

This hi-tech system has been jointly developed by Indian Institute of Technology (IIT) Madras and Centre for Development of Advanced Computing (C-DAC) Thiruvananthapuram under Intelligent Transportation System (ITS) funded by the Union Department of Electronics and Information Technology (DeitY).

It will be officially handed over to the city police this month, Gitakrishnan Ramadurai of Centre of Excellence in Urban Transport, Department of Civil Engineering, IIT Madras, told *Express*.

"We have worked for nearly three years on the project. This offers an array of features to the police and commuters providing dynamic traffic information. The 15-km corridor covering parts of Old Mahabalipuram Road (OMR), Velachery Main Road, Velachery Bypass Road, Sardar Patel Road and Raj Bhavan Road has 9 signalised intersections. This was used as the study corridor or test bed to implement the project. It's a technology demonstrator, which can be easily scaled up to the entire city," Ramadurai said.

On the operational part, an IIT official said GPS gadgets have been fitted to 120 buses plying in the study corridor. These provide data, using which, different sets

of information are processed and fed into data dissemination database, which in turn is relayed on Variable Message Sign (VMS) boards. To a query on how it is different from Google Maps, Ramadurai said under unexpected situations such as an accident or road block, ATIS scores big as police are provided manual override option where they can enter updates and put it across to travellers via VMSs.

"Also, we provide live images of the traffic movement with the help of 24 high-definition cameras installed en route which adds reliability," he said, before adding that ₹4.2 crore was invested in the development of ATIS.

Already a memorandum of understanding (MoU) has been signed with the city police, which has earmarked funds for the maintenance of the infrastructure. Ramadurai said a 45-inch monitor and workstation has been set-up at police commissioner's office. "The project staff will assist the police for a few months until they get comfortable with the system," he said.

Abhay Kumar Singh, the former Additional Commissioner of Police (Traffic), told *Express* the concept was good but its success depends on scalability. Currently, it is only a technology demonstration covering a 15-km stretch.

The Transport Engineering Division of IIT Madras is working closely with Tata Consultancy Services (TCS). The technology transfer would take place after formal approval from the Central government.

GPS gadgets

Fitted to 120 buses plying in the study corridor, these provide data, using which, different sets of information are processed and fed into data dissemination database.

Data dissemination database

Relays the information to the Variable Message Sign (VMS) modules.

Study corridor

The 15-km corridor covering parts of Old Mahabalipuram Road (OMR), Velachery-Taramani Road, Velachery Main Road, Velachery Bypass Road, Sardar Patel Road and Raj Bhavan Road have 9 signalised intersections.



Travellers can access traffic info through

- VMS
- Web-based Real-time Traffic Information Systems

Services offered

- Alternative routes and travel time
- Congestion and speed maps
- Delay maps



We also provide live images of the traffic movement with the help of 24 high-definition cameras installed en route which adds reliability.

Gitakrishnan Ramadurai, Centre of Excellence in Urban Transport, Department of Civil Engineering, IIT Madras.

Date: 12th July 2017

Publication: The Hindu Business Line

Edition: Chennai/Delhi/Hyderabad/Kolkata/Mumbai/Ahmedabad/Pune/Bangalore/Kochi

Page no.: 17

Journalist: T.E Raja Simhan

Professor: Prof. Krishnan Balasubramanian

Headline: IIT Madras joins hands with KPMG

URL: <http://www.thehindubusinessline.com/news/education/iit-madras-joins-hands-with-kpmg/article9760682.ece>

IIT Madras joins hands with KPMG

Bid to monetise tech IPs developed by the institute

TE RAJA SIMHAN
Chennai, July 11

IIT Madras has increased its focus on filing more patents and monetise its Intellectual Property (IP). It has tied up with consultant KPMG to market its technology IPs, said Krishnan Balasubramanian, Dean, Centre for Industrial Consultancy & Sponsored Research, IIT Madras.

In 2016-17, the institute filed 120 patents, including 20 international, as against 106 in the previous financial year. Revenue from patents more than doubled to ₹1.85 crore in 2016-17 from nearly ₹90 lakh in the previous financial year.

"Revenue from patents more than quadrupled when compared with two years ago. We have made conscious effort to market our technology and made it easier for the industry to come and work with us," he told *BusinessLine*.

Licensing technology

Indian industry is waking up to licensing technology for competitive advantage. By licensing

IPs, it makes more business sense for them. "We see more companies coming to us to discuss licensing IPs and trying to convert IPs that are generic into something that is more specific to their end use," he said.

On tie-ups with KPMG, Balasubramanian said it has its own IP division in India and they will market technologies developed at the institute.

The technology basket at IIT Madras is quite diverse and managing such a diverse range of technologies is a big challenge and needs specialists, he said.

Water treatment tech

In the recent times, water treatment technology has been attracting lots of attention with recent agreement with Eureka Forbes. Similarly, for solar-based technologies and battery-based technologies, there was tie-up with Amara Raja Batteries and for seating with Harita Seating, he said.

The institute has also joined hands with National Research Development Corporation, an enterprise of the Department of Scientific & Industrial Research, for commercialisation of technologies/ intellectual properties developed at IITM, he said.

Date: 23rd July 2017

Publication: Times of India

Edition: Chennai

Page no.: 6

Journalist: NA

Professor: Prof. Ashok Jhunjhunwala

Headline: IIT-M launches new platform for fundraising

IIT-M launches new platform for fundraising

Chennai: Indian Institute of Technology Madras on Saturday launched a new fundraising platform for raising endowment funds through alumni. Launched on the occasion of 'Alumnite', held to welcome the 2017 batch, the 'Joy of Giving to IIT-M' is intended to aid IIT Madras' "journey toward distinction in the fields of engineering education and research". It will work towards raising endowment funds for

the institute through alumni and corporations from around the globe. Those interested can log on to - <https://joyofgiving.alumni.iitm.ac.in/> -

The Alumni and funding under Corporate Social Responsibility (CSR) initiatives have cumulatively helped raise ₹177 crore in the last eight years from 5,000 donors. More than 30 companies are engaged with IIT-Madras at the moment. Fund raising by

IIT-Madras grew by 22% in 2016-17.

An institute Chair, endowed in the name of late Prof. S Sampath by alumni of the 1964-66 batches, was also launched on the occasion. Prof. Ashok Jhunjhunwala is the current occupant. A new initiative to honour the "Founding Professors" with a Chair Chair Professorship was announced during the function. TNN

Date: 23rd July 2017

Publication: Web India 123

Edition: Online

Journalist: NA

Headline: IIT-M launches new fund raising platform through alumni

URL: <https://news.webindia123.com/news/articles/India/20170723/3152764.html>

IIT-M launches new fund raising platform through alumni

The Indian Institute of Technology-Madras today launched a new fund raising platform for raising endowment funds through alumni. The new platform was launched on the occasion of 'Alumnite' held to welcome the 2017 batch, which graduated on Friday into the Alumni fold, the 'Joy of Giving to IITM', which was intended to aid IIT-M's journey towards global distinction in the fields of engineering education and research. It would work towards raising endowment funds for the institute through alumni and corporations from around the globe. The new initiative aims to place IIT-M among the 'Top 50' education and research institutes in the world. "Crowd funding is a new initiative of IIT-Madras, which has brought in Rs one crore in retail funds. Around 250 new donors have joined the initiative with the average donation size being Rs 35,000", a release from IIT-M said. The Alumni and funding under Corporate Social Responsibility (CSR) initiatives have cumulatively helped raise Rs 177 crore in the last eight years from 5,000 donors. More than 30 companies were engaged with IIT-M at the moment. The fund raising by IIT-Madras grew by 22 per cent in 2016-17. Welcoming the 2017 batch into the Alumni fold, Prof R Nagarajan, Dean, International and Alumni Relations, IIT-M, said IIT-M have successfully regained the No:1 ranking in NIRF for the second consecutive year. This was made possible due to the contributions of the faculty, students, staff and the alumni. AlumNite" featured awards, prizes and entertainment. MORE UNI GV CS 1125

Date: 23rd July 2017

Publication: Skill Outlook

Edition: Online

Journalist: NA

Headline: IIT Madras launches new fundraising platform for raising endowment funds through Alumni

URL: <http://skilloutlook.com/education/iit-madras-launches-new-fundraising-platform-raising-endowment-funds-alumni>

IIT Madras launches new fundraising platform for raising endowment funds through Alumni

Chennai: The Indian Institute of Technology (IIT) Madras launched a new fundraising platform on 22 July 2017, for raising endowment funds through alumni.

Launched on the occasion of 'Alumnite' held to welcome the 2017 batch, which graduated on Friday (21 July, 2017) into the Alumni fold, the 'Joy of Giving to IIT Madras' <https://joyofgiving.alumni.iitm.ac.in> is intended to aid IIT Madras' journey towards global distinction in the fields of engineering education and research. It will work towards raising endowment funds for the institute through alumni and corporations from around the globe. It aims to place IIT-Madras among the 'Top 50' education and research institutes in the world.

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Prof. R. Nagarajan, Dean, International and Alumni Relations, IIT Madras, welcomed the 2017 batch into the Alumni fold. He also recalled that IIT-Madras had successfully regained the No:1 ranking in NIRF for the second consecutive year. This was made possible due to the contributions of the faculty, students, staff and the alumni.

"AlumNite" features awards, prizes and entertainment. Students demonstrated their talents on campus one last time cultural performances such as singing and dancing, receiving awards for academic performance.

Prof. Bhaskar Ramamurthi, Director, IIT Madras, presented the Distinguished Alumnus Award to Prof. Anand Raghunathan, Purdue University, and Distinguished Visiting Professor, IIT Madras. A total of 12 Distinguished Alumnus Awards were announced this year.

He also conferred the YBG Varma Award for "Excellence-in-Teaching in Chemical Engineering", "Excellence-in-Research" award (instituted by Dr. Prakash Keshaviah), the "JC Bose Patent Award" (instituted by IIT-Madras alumni, Anil Kumar and Kundan Kumar, along with other faculty and student Awards

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‘AceMicromatic Chair Professorship’ in Machine Tools and Manufacturing Technologies was also launched during the function. P. Ramadas, Managing Director of the company, will be the Chair. A book written by the Department of Management Studies alumna Rajeshwari Victor was also released.

Subramanian, Chief Executive Officer (Development Office), IIT Madras Charitable Trust, said, “Thanks to the active involvement of the IIT-Madras Alumni community, the Rs. 55 crore was raised in 2016-17, up from Rs. 45 crore in the preceding fiscal.

Mr. Ravi Venkatraman, President, IIT Madras Alumni Association, S. Gopal, President, IIT Alumni Industry Interaction Center, spoke.

A minute’s silence was observed in memory of Mr. R. Natarajan, the first Registrar of IIT-Madras, who passed away recently.

Date: 24th July 2017

Publication: Telengana Today

Edition: Online

Journalist: NA

Faculty: Prof. Bhaskar Ramamurthi, Prof R Nagarajan & Prof. Ashok Jhunjhunwala

Alumni/student: Mr Anand Raghunathan & Rajeshwari Victor

Headline: IIT Madras launches new fundraising platform

URL: <https://telanganatoday.com/iit-madras-launches-fundraising>

IIT Madras launches new fundraising platform

It will work towards raising endowment funds for the institute through alumni and corporations from around the globe.



Hyderabad: The Indian Institute of Technology Madras launched a new fundraising platform on Saturday, for raising endowment funds through alumni, a statement from the university said.

Launched on the occasion of 'Alumnite' held to welcome the 2017 batch, which graduated on Friday, into the Alumni fold, the 'Joy of Giving to IITM' initiative is intended to aid IIT Madras' journey towards global distinction in the fields of engineering education and research.

It will work towards raising endowment funds for the institute through alumni and corporations from around the globe. It aims to place IIT-Madras among the 'Top 50' education and research institutes in the world.

Crowd funding is a new initiative of IIT-Madras, which has brought in Rs 1 crore in retail funds. Around 250 new donors have joined the initiative with the average donation size being Rs. 35,000.

The Alumni and funding under Corporate Social Responsibility (CSR) initiatives have cumulatively helped raise Rs 177 crore in the last eight years from 5,000 donors. More than 30 companies are engaged with IIT-Madras at the moment. Fund raising by IIT-Madras from grew by 22 per cent in 2016-17.



Prof R Nagarajan, Dean, International and Alumni Relations, IIT Madras, welcomed the 2017 batch into the Alumni fold. He also recalled that IIT-Madras had successfully regained the No 1 ranking in NIRF for the second consecutive year.

This was made possible by the contributions of the faculty, students, staff and the alumni.

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M Subramanian, Chief Executive Officer (Development Office), IIT- Madras Charitable Trust, said, “Thanks to the active involvement of the IIT-Madras Alumni community, Rs 55 crore was raised in 2016-17, up from Rs 45 crore in the preceding fiscal.

A minute’s silence was observed in memory of Mr R Natarajan, the first Registrar of IIT-Madras, who passed away recently.

Date: 22nd July 2017

Publication: Chennai Patrika

Edition: Online

Journalist: NA

Faculty: Prof. Bhaskar Ramamurthi, Prof. R. Nagarajan, Prof. Ashok Jhunjhunwala

Student/Alumni: Mr Anand Raghunathan

Headline: IIT-M launches new fundraising platform

URL: <http://news.chennaipatrika.com/post/2017/07/22/IIT-M-launches-new-fundraising-platform.aspx>



Chennai, 22 July, 2017: The Indian Institute of Technology Madras launched a new fundraising platform on Saturday, 22 July 2017, for raising endowment funds through alumni.

Launched on the occasion of 'AlumNite' held to welcome the 2017 batch, which graduated on Friday (21st July, 2017) into the Alumni fold, the 'Joy of Giving to IITM' - <https://joyofgiving.alumni.iitm.ac.in/> - is intended to aid IIT Madras' journey towards global distinction in the fields of engineering education and research. It will work towards raising endowment funds for the institute through alumni and corporations from around the globe. It aims to place IIT-Madras among the 'Top 50' education and research institutes in the world.

Crowd funding is a new initiative of IIT-Madras, which has brought in Rs. 1 crore in retail funds. Around 250 new donors have joined the initiative with the average donation size being Rs. 35,000.

The Alumni and funding under Corporate Social Responsibility (CSR) initiatives have cumulatively helped raise Rs. 177 crore in the last eight years from 5,000 donors. More than 30 companies are engaged with IIT-Madras at the moment. Fund raising by IIT-Madras from grew by 22 per cent in 2016-17.

Prof. R. Nagarajan, Dean, International and Alumni Relations, IIT Madras, welcomed the 2017 batch into the Alumni fold. He also recalled that IIT-Madras had successfully regained the No:1 ranking in NIRF for

the second consecutive year. This was made possibly due to the contributions of the faculty, students, staff and the alumni.

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Date: 24th July 2017

Publication: DT Next

Edition: Chennai

Page no.: 4

Journalist: NA

Professor: Prof. Bhaskar Ramamurthi, Prof. Ashok Jhunjhunwala

Student/Alumni: Mr AnandRaghunathan

Headline: IIT-M launches endowment fundraiser through alumni

URL: <http://www.dtnext.in/News/City/2017/07/24091319/1039524/IITM-launches-endowment-fundraiser-through-alumni.vpf>

IIT-M launches endowment fundraiser through alumni

The Indian Institute of Technology Madras recently launched a fund-raising platform for raising endowment funds through alumni. Launched on the occasion of 'Alumnite' held to welcome the 2017 batch, which graduated on July 31 into the Alumni fold, the 'Joy of Giving to IITM' intends to aid IIT Madras' journey towards global distinction. It will work towards raising endowment funds for the institute through alumni and corporations from around the globe, said a press release.

It aims to place IIT Madras among the 'Top 50' education and research institutes in the world.

The crowd funding initiative of IIT-Madras has brought in Rs. 1 crore in retail funds. Around 250 new donors have joined the initiative with the average donation size being Rs. 35,000.

The alumni and funding under Corporate Social Responsibility (CSR) initiatives have cumulatively helped raise Rs. 177 crore in the last eight years from 5,000 donors. More than 30 companies are engaged with IIT-Madras at



IIT-Madras 2017 batch performs at the Alumnite event held on Saturday

the moment. Fund raising by IIT-Madras from grew by 22 per cent in 2016-17.

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Bhaskar Ramamurthi (R), Director, IIT-M, presents the Distinguished Alumnus Award to Prof. Anand Raghunathan (L), Purdue University

Date: 24th July 2017

Publication: Careers360

Edition: Online

Journalist: NA

Faculty: Prof. Bhaskar Ramamurthi, Prof. R. Nagarajan, Prof. Ashok Jhunjhunwala

Student/Alumni: Mr Anand Raghunathan

Headline: IIT-Madras launches platform for raising endowment funds

URL: <https://engineering.careers360.com/articles/iit-madras-launches-platform-for-raising-endowment-funds>

IIT-Madras launches platform for raising endowment funds



The Indian Institute of Technology Madras (IIT Madras) has launched a new fund raising platform on July 22, 2017 for raising endowment funds through alumni.

Launched on the occasion of 'Alumnite', held to welcome the 2017 batch which graduated and entered the alumni fold on Friday, July 21, the 'Joy of Giving to IITM' is intended to aid IIT Madras' journey towards global distinction in the fields of engineering education and research. It will work towards raising endowment funds for the institute through alumni and corporations globally. It aims to place IIT-Madras among the 'Top 50' education and research institutes in the world.

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'AceMicromatic Chair Professorship' in Machine Tools and Manufacturing Technologies was also launched during the function. P. Ramadas, Managing Director of the AceMicromatic company, will serve as the Chair.

A book written by the Department of Management Studies alumna Rajeshwari Victor was also released.

M. Subramanian, Chief Executive Officer (Development Office), IIT Madras Charitable Trust, said, "Thanks to the active involvement of the IIT Madras Alumni community, a total amount of Rs. 55 crore was raised in 2016-17, up from Rs. 45 crore in the preceding fiscal."

Mr. Ravi Venkatraman, President, IIT Madras Alumni Association and S. Gopal, President, IIT Alumni Industry Interaction Center, were also among the speakers. A minute's silence was observed in memory of R. Natarajan, the first Registrar of IIT Madras, who passed away recently.

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Publication: Inc42

Edition: Online

Journalist: Meha Agarwal

Headline: Indian Startup Funding Of The Week [Funding Galore]

URL: <https://inc42.com/buzz/indian-startup-funding-9/>

Indian Startup Funding Of The Week [Funding Galore]

We bring you the latest edition of Funding Galore: Indian Startup Funding of the week. This week, 10 Indian startups raised about \$83 Mn in funding altogether and three startup acquisitions took place in the Indian startup ecosystem. (The startup funding calculations are based on the startups that disclosed their funding amounts.)

One of the most speculated Indian startup deals, which revolved around Snapdeal's subsidiary FreeCharge was finally signed. Freecharge got acquired by Axis Bank for \$60 Mn. The acquisition is expected to be completed within two months. Earlier this week, Amazon also made an offer of about \$70 Mn-\$80 Mn for the acquisition of FreeCharge. At the same time, it was also reported that Amazon poured in \$214 Mn (INR 1,381 Cr) in its data services unit, Amazon Data Services India, in November 2016.

Another important Indian startup news was the Snapdeal Flipkart merger receiving in-principal approval from Ratan Tata, Temasek, BlackRock, and Foxconn. However, the final deal still awaits a nod from other minority shareholders including PremjiInvest and Ontario Pension Fund. The news came in just a day after the Snapdeal Board agreed to a \$950 Mn merger offer from Flipkart. Earlier this week, there were also reports of Infibeam acquiring Snapdeal as well. However, Infibeam denied any such developments.

Next up, Microsoft Corp. revealed intentions to invest \$50 Mn-\$100 Mn (INR 320 Cr-INR 640 Cr) in Indian startup Ola. In exchange, the technology giant will acquire a minority stake in the ride-hailing startup. Also, Ola is currently in talks with Chinese Internet conglomerate Tencent for a prospective \$400 Mn funding round. Tencent executives were in Bengaluru last week and they met the Ola management team to discuss the transaction.

Indian Startup Funding Of The Week

fork-startup funding
Fork Media: Agnus Capital, the family office of promoters of pharma firm Strides Group invested an undisclosed amount in incubatee firm Fork Media. Advertising technology company Fork Media was founded by Verma and Upen Rai in February 2013.

creators gurukul-indian startup
Creator's Gurukul: Yuvraj Singh invested an undisclosed amount in Delhi-based coworking startup Creator's Gurukul. The cricketer has also come onboard as a partner and brand ambassador for the Indian startup.

bujus-startup funding
BYJU'S: This is the highest Indian startup funding of the week. Bengaluru-based edtech startup BYJU'S raised \$40 Mn in funding from China-based Tencent Holdings Limited. This latest

round of funding will help BYJU'S accelerate product development for new markets and enable inorganic growth through acquisitions.

noticeboard-startup funding Noticeboard: Bengaluru-based staff communication platform Noticeboard raised \$1.2 Mn in a funding round led by Stellaris Venture Partners, BlackBuck founder Rajesh Yabaji, and Jayant Kadambi, co-founder of digital advertising company YuMe. With this investment Alok Goyal, Partner at Stellaris Venture Partners, will join Noticeboard's Board of Directors. The startup funding will be utilised to strengthen the design team, and to develop new products & technologies.

Jhakaas: Mumbai-based technology platform Jhakaas raised an undisclosed amount from US-based investor Amen Dhyllon. The startup funding will be utilised for technological enhancement and upgradation of the application and expansion of the network throughout India.

fab hotels-startup funding FabHotels: This is the second-highest Indian startup funding of the week. Budget hotels brand FabHotels raised \$25 Mn in a Series B round led by Goldman Sachs and existing investor Accel Partners. The company will use the newly-raised funds from Goldman Sachs to double the number of hotel rooms on its platforms. It is also looking to strengthen its presence in select cities.

Thinkerbell Labs: Bengaluru-based assistive tech and edtech startup Thinkerbell Labs raised \$202K (INR 1.3 Cr) from Indian Angel Network's Rajesh Navaneetham, Manjunath Nayak, and Anand Mahindra, Chairman and MD at Mahindra Group. Rajesh Navaneetham will sit on the board of ThinkerBell Labs representing IAN. The Indian startup will utilise the funds to run pilots in the UK, setting up product, sales and content teams.

bigstylist-startup funding BigStylist: Mumbai-based beauty services marketplace BigStylist raised \$1.2 Mn (INR 8 Cr) in a fresh funding round led by Info Edge. The startup funding has been raised via compulsorily convertible debentures (CCD). With the newly-secured funding, the Indian startup is looking to set up shop in Delhi NCR, and is also hoping to break even in the two cities it currently operates in, Mumbai and Pune.

1mg-indian startup funding 1mg: This is the third-highest Indian startup funding of the week. 1mg, the Gurugram-based healthtech startup raised an additional \$15 Mn funding in Series C round. The new funds were fuelled in by HBM Healthcare Investments along with existing investors Sequoia India, Maverick Capital Ventures, Omidyar Network, and Kae Capital. With the newly-raised funds, the 1mg team aims to further expand its online diagnostics and consultation services in India, specifically in smaller towns and cities. A part of the funding will be utilised in building new lines of business, introducing corporate wellness offerings for their workforce, outpatients' insurance facilitation for insurance companies, and patient support and adherence programmes with pharma companies.

gympik-indian startup Gympik: Gympik.com, an online marketplace for discovering fitness centres and gyms, secured \$1 Mn in funding from existing investor RoundGlass Partners. The startup funding will be used to expand its operations network to five more Tier II cities and to strengthen its technology team.

Besides the above-mentioned startup funding, Mukesh Ambani-led Reliance Industries Limited invested \$64.1 Mn in Balaji Telefilms Limited (BTL) against a 25% stock. The funding is to speed up content development initiatives, especially for ALTBalaji, the video on-demand platform of Balaji Telefilms. The funds will be utilised to provide the company with an impetus to compete with other OTT (over-the-top-content) service providers – both global and Indian.

Indian Startup Acquisitions Of The Week

Gurugram-headquartered Yatra acquired corporate travel service provider Air Travel Bureau (ATB) for an undisclosed amount. The acquisition strengthens Yatra's presence in India's burgeoning corporate travel sector. The deal, which has already received the approval of the Board of Directors of both companies, will take place through Yatra Online Inc.'s subsidiary Yatra Online Pvt Ltd.

Japanese advertising and public relations company, Dentsu Aegis Network acquired a 51% stake in digital media firm, Sokrati Technologies Pvt. Ltd. Pune-based Sokrati is a digital media startup.

Other Developments Of The Week

The Indian Institute of Technology-Madras launched a new fundraising platform for raising endowment funds through alumni. The platform would work towards raising endowment funds for the institute through alumni and corporations from around the globe.

SAIF Partners raised a fresh \$350 Mn fund, as part of its diverse investment strategy to back tech startups as well as brick-and-mortar companies. With the new funding, the firm's total assets under management (AUM) has reached the \$1 Bn mark. This is SAIF Partners' third India-dedicated fund.

Telangana Government announced its Innovation Policy to promote entrepreneurship in the state. Telangana will set up an early-stage investing vehicle T-Fund (Telangana Innovation Fund) in collaboration with T-Hub. A \$310 Mn (INR 2,000 Cr) master fund will be set up to invest in sector-specific startups, along with general venture capital funds. The state's government will also set up a \$38.7 Mn (INR 250 Cr) T-SEED fund to support seed stage startups.

Delhi-based oil PSU Gas (India) Limited or GAIL launched an initiative 'Pankh' (wings) to nurture startup entrepreneurs. GAIL has set aside a fund corpus of \$7.7 Mn (INR 50 Cr) to help startup entrepreneurs realise their potential.

Zone Startups is organising the fifth annual "The Next BIG Idea" contest in collaboration with the Government of Ontario, Canada. The contest selects five Indian startups and gives them an opportunity to tap into the North American market. This year, the winning startup will be awarded "The Aditya Jha India Entrepreneur Award," wherein it will be given a grant of INR 5 Lakhs and a one-year access to the accelerator programme at Zone Startups India.

**IIT Madras is a research-focused
Institute**

Date: 4th July 2017

Publication: The Wire

Edition: Online

Journalist: Dinesh C Sharma

Professor: Prof T Asokan

Headline: IIT Team Developing Affordable Trainer Robot for Medical Colleges

URL: <https://thewire.in/154011/iit-madras-surgical-robot-trainer/>

IIT Team Developing Affordable Trainer Robot for Medical Colleges

The researchers estimate their robot will cost Rs 60-70 lakh, whereas commercial models cost Rs 12 crore. The difference could mean more hospitals will be able to afford the machine.



The IIT-M team with their trainer surgical robot. Credit: India Science Wire

New Delhi: Just like the industrial robots becoming increasingly common on factory floors, surgical robots are making their presence felt in hospitals. However, prohibitive costs and a lack of training facilities are hampering a faster rollout. A trainer surgical robot developed by the Indian Institute of Technology Madras (IIT-M) could help address this gap to some extent.

Surgeon-assisted robotic operations for several medical conditions are being performed at few tertiary care hospitals in the country. The use of robots offers greater precision and helps surgeons minimise the loss of blood by restricting incisions to smaller areas. Robotic surgery also allows for faster recovery and reduces the chances of complications. But not many hospitals can afford these robots due to their high costs and a lack of exposure to the associated technology.

Now, researchers at IIT-M have developed a surgical robot specifically for training purposes. Those varieties currently available in the market work on the master-slave principle. The surgeon, sitting away from the patient, controls the master robot and monitors surgery through a vision system, while a slave robot, holding the necessary surgical tool, performs and repeats the doctor's actions. The IIT-M training robot has a similar configuration. The master and slave arms have seven degrees of freedom each (i.e. seven ways in which they can act). The prototype has been shown to a few robotic surgeons, according to its developers, the feedback has been encouraging.

"For it to be converted into a full-fledged surgical robot, it needs to undergo a large number of safety tests and regulatory approvals and clinical trials," explained T. Asokan, a professor in the department of engineering design. "This process can take a long time. But the robot developed by us can very well be used as a trainer robot in medical colleges." Asokan led the research effort under a project funded by the Department of Science and Technology. The current design is aimed at abdominal surgeries – but the developers have clarified that it could be extended to include other procedures in the future. To develop the prototype, the IIT-M team collaborated with urologists from PSG Medical college, Coimbatore, and an industrial partner.

It is estimated that the trainer robot will cost Rs 60-70 lakh. "The cost of a commercial robot is around Rs 12 crore. To get such a costly robot for training purposes would be impossible for medical colleges. An affordable trainer robot will help students to get trained on this futuristic technology," Asokan added.

Robotic surgeons, however, feel that much work needs to be done for any developmental robot to become usable on a large scale. "Just as airliners need skilled pilots, surgical robots are best operated by expert surgeons specifically trained in their nuances," said Dr Gagan Gautam, head of urologic oncology and robotic surgery at Max Institute of Cancer Care, New Delhi. "Surgical simulation, undoubtedly, is going to play a key part in getting the next generation of surgeons up to speed in performing next-generation surgeries."

This article was originally published by India Science Wire. Dinesh C. Sharma tweets at @dineshcsharma.

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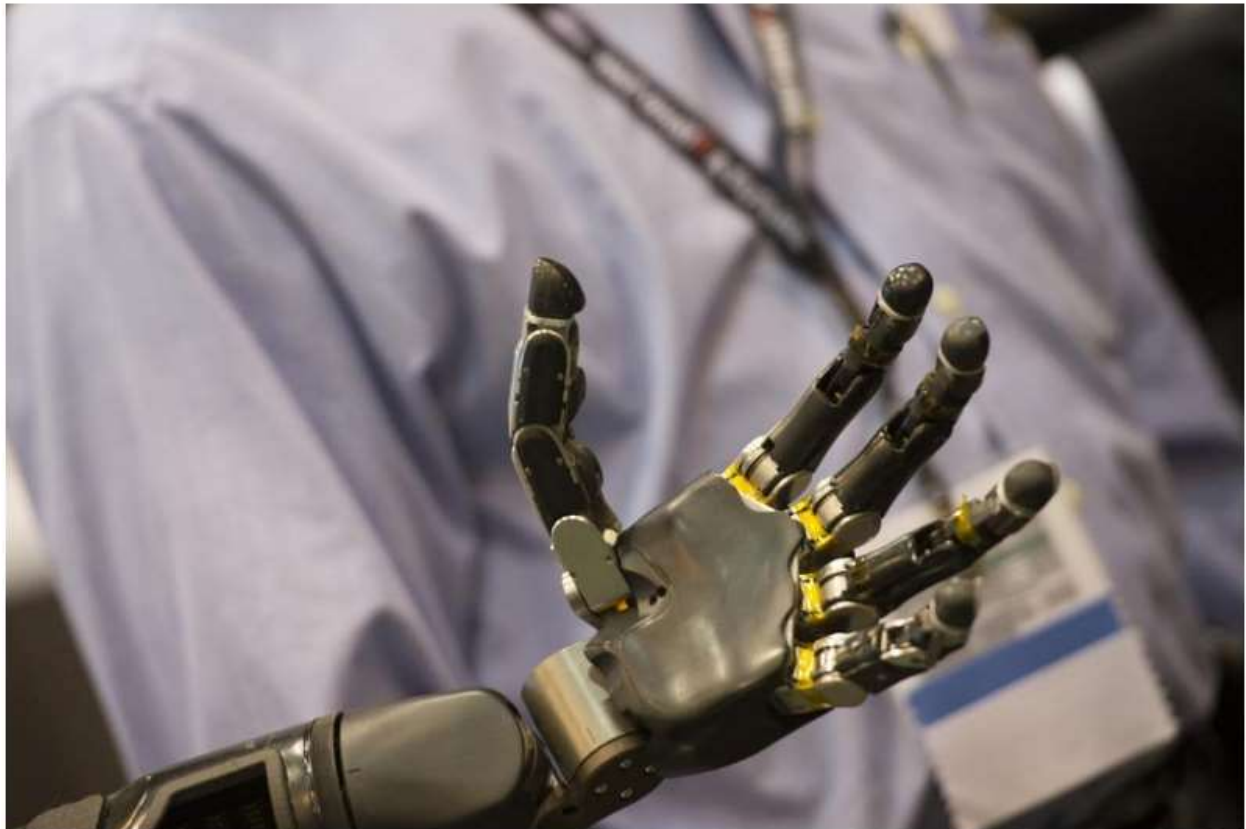
Journalist: Dinesh C Sharma

Professor: Prof T Asokan

Headline: IIT Madras develops surgical robot for medical colleges

URL: <http://www.downtoearth.org.in/news/iit-madras-develops-surgical-robot-for-medical-colleges-58194>

IIT Madras develops surgical robot for medical colleges



Not many hospitals can afford robots due to high costs and lack of exposure to robotic technology. Credit: US Department of Defense



Just like industrial robots that are increasingly becoming common on factory floors, surgical robots are making their presence felt in hospitals. However, prohibitive costs and lack of training facilities are hampering their faster rollout. A trainer surgical robot developed by the Indian Institute of Technology Madras (IIT-M) could help address this gap to some extent.

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📷 IIT-M team with its trainer robot (left) and slave arms of the robot (right). Credit: India Science Wire

"For it to be converted into a full-fledged surgical robot, it needs to undergo a large number of safety tests and regulatory approvals, and clinical trials. This process can take a long time. But the robot developed by us can very well be used as a trainer robot in medical colleges," said Prof T Asokan of the Department of Engineering Design, who led the research effort under a project funded by the Department of Science and Technology (DST). The current design of the robot is aimed at abdominal surgeries but may be extended to other surgeries. IIT-M team collaborated with urologists from PSG Medical college, Coimbatore, and an industrial partner.

Surgical robots, currently available in the market, work on the principle of master-slave robot operation. The surgeon, sitting away from the patient, controls the master robot and monitors surgery through a vision system, while a slave robot holding necessary surgical tool repeats doctor's actions. The trainer robot developed by scientists is based on a similar configuration. The master and slave arms have 7 degrees of freedom each. The prototype has been shown to a few robotic surgeons and they have appreciated the product, according to the developers.

It is estimated that the trainer robot may cost between Rs 60 lakh to Rs 70 lakh. "The cost of a commercial robot is around Rs 12 crores. To get such a costly robot for training purposes would be impossible for medical colleges. An affordable trainer robot will help students to get trained on this futuristic technology," added Asokan.

Robotic surgeons, however, feel that much work needs to be done for any developmental robot to be used on a large scale. "Just as airliners need skilled pilots, surgical robots are best operated by expert surgeons specifically trained in their nuances. Surgical simulation, undoubtedly, is going to play a key part in getting the next generation of surgeons up to speed in performing next gen surgery," commented Dr

Gagan Gautam, head of urologic oncology and robotic surgery at Max Institute of Cancer Care, New Delhi.
(India Science Wire)

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Publication: Tech 2

Edition: Online

Journalist: Dinesh C Sharma

Professor: Prof T Asokan

Headline: Indian researchers from IIT-M have developed a surgical robot for training purposes

URL: <http://m.tech.firstpost.com/news-analysis/indian-researchers-from-iit-m-have-developed-a-surgical-robot-for-training-purposes-386870.html>

Indian researchers from IIT-M have developed a surgical robot for training purposes

By Dinesh C Sharma

Just like industrial robots that are increasingly becoming common on factory floors, surgical robots are making their presence felt in hospitals. However, prohibitive costs and lack of training facilities are hampering their faster rollout. A trainer surgical robot developed by the Indian Institute of Technology Madras (IIT-M) could help address this gap to some extent.

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India Science Wire

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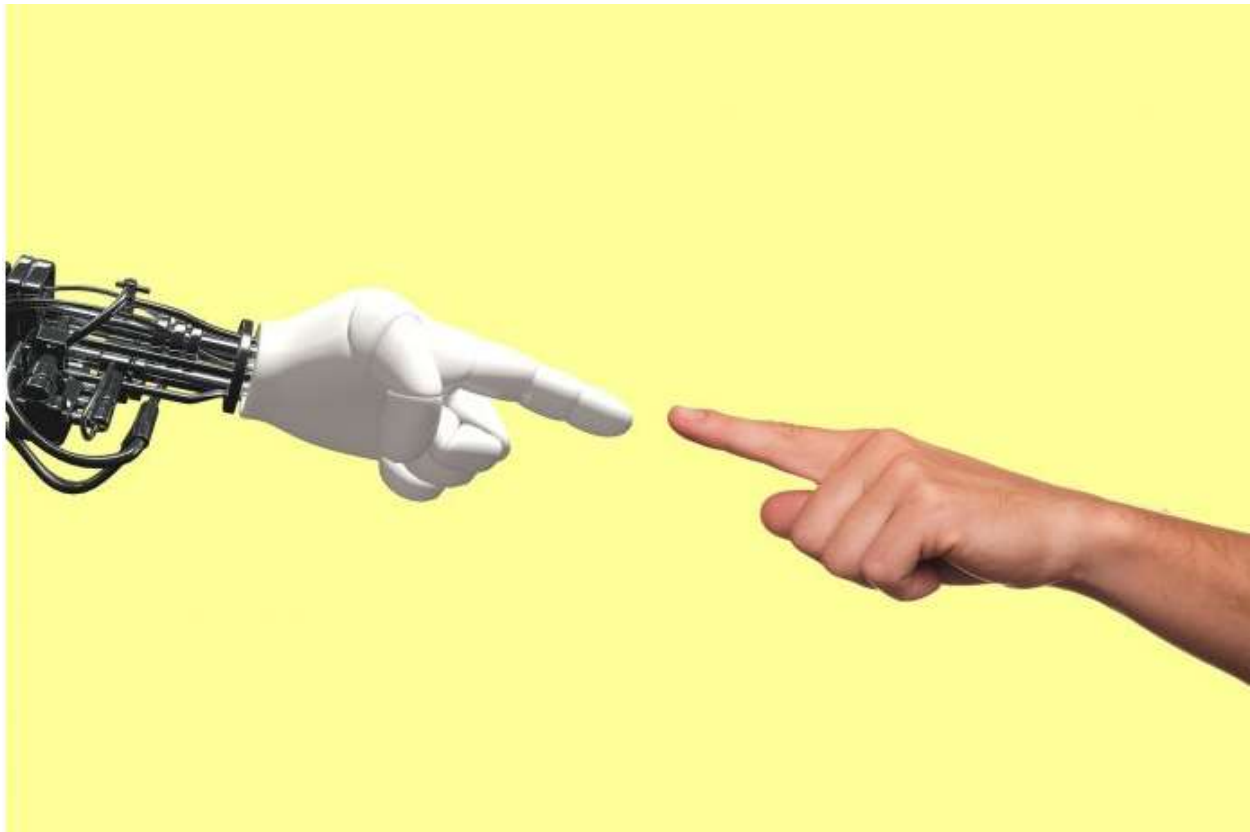
Journalist: NA

Professor: Prof T Asokan

Headline: IIT-M team develops trainer robot for medical colleges

URL: <http://www.biovoicenews.com/iit-m-team-develops-trainer-robot-medical-colleges/>

IIT-M team develops trainer robot for medical colleges



By Dinesh C Sharma

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Journalist: NA

Professor: Prof T Asokan

Headline: IIT Madras develops surgical robot

आइआइटी मद्रास ने बनाया ट्रेनर सर्जिकल रोबोट

नई दिल्ली, आइएसडब्ल्यू : भारत के अस्पतालों में भी सर्जरी करने वाले रोबोट्स की जरूरत महसूस होने लगी है। हालांकि करोड़ों की लागत और प्रशिक्षण सुविधाओं की कमी इसमें रोड़ा है। इसी के मद्देनजर, आइआइटी मद्रास के शोधकर्ताओं ने प्रशिक्षण देने वाला ट्रेनर रोबोट विकसित किया है। जहां वैश्विक स्तर पर ऐसे रोबोट की कीमत 12 करोड़ के आसपास होती है, वहीं स्वदेश निर्मित रोबोट 60-70 लाख रुपये का पड़ेगा।

आइआइटी मद्रास के इंजीनियरिंग डिजाइन विभाग के प्रोफेसर और शोध टीम के मुखिया टी अशोकन के मुताबिक, यह रोबोट मेडिकल कॉलेजों में प्रयोग करने के लिए बहुत कारगर साबित होगा। उन्होंने कहा, एक कॉमर्सियल रोबोट करीब 12 करोड़ रुपये का पड़ता है। मेडिकल कॉलेजों के प्रशिक्षण के उद्देश्य से इतना महंगा रोबोट खरीदना संभव नहीं है। एक कम कीमत वाला ट्रेनर रोबोट छात्रों को भविष्य की इस टेक्नोलॉजी सीखने में मददगार साबित होगा। अशोकन ने कहा, इस

मेडिकल कॉलेजों के लिए वेहद काम का साबित होगा यह रोबोट

12 करोड़ के मुकाबले इसकी कीमत होगी महज 60 से 70 लाख



मालिक और नौकर के सिद्धांत पर काम करता है रोबोट

वर्तमान में ऐसे रोबोट मौजूद हैं, जो मालिक और नौकर के सिद्धांत पर काम कर रहे हैं। इसमें सर्जन मरीज से दूर बैठता है और रोबोट को नियंत्रित करता है। ऑपरेशन के टूल्स रोबोट के हाथ में होते हैं, जो स्क्रीन से देख रहे सर्जन की क्रियाओं को दोहराता हुआ ऑपरेशन करता है। वैज्ञानिकों द्वारा तैयार किया गया रोबोट भी इसी मालिक और नौकर की पद्धति पर काम करता है। इसे तैयार करने वालों के मुताबिक उन्होंने इसके प्रोटोटाइप को कुछ रोबोटिक सर्जन को दिखाया है और उन्होंने इसकी सराहना की है।

रोबोट को पूर्णतया सर्जिकल रोबोट के रूप में बदलने से पहले इसे कई सुरक्षा परीक्षणों से गुजरना होगा।

नियामक से अनुमति (रेगुलेटरी अप्रूवल) लेने के साथ ही क्लिनिकल ट्रायल्स (चिकित्सकीय परीक्षणों) की जरूरत पड़ेगी। ये लंबी प्रक्रिया है, जिसमें काफी समय लगेगा।

जात हो, देश के कुछ अस्पतालों में सर्जन सहायक रोबोटिक ऑपरेशन किए जा रहे हैं। ये सर्जन के लिए काफी मददगार साबित होते हैं। इनके जरिए बहुत छोटे स्थान पर चीरा देने से रक्त स्राव कम होता है। रोबोटिक सर्जरी जहां जटिलताओं को कम करती है वहीं मरीज की रिकवरी भी जल्दी होती है।

Date: 17th July 2017

Channel: Rajya Sabha TV

Programme: Science Monitor

Edition: Electronic

Journalist: NA

Professor: Prof. Abhijit Deshpande P

Alumni/students: Ravi Khatri & Sarath Kumar

Headline: New Device to help farmers

URL: <https://www.youtube.com/watch?v=HNeQ2KAR500&feature=youtu.be&a>



Date: 17th July 2017

Channel: Rajya Sabha TV

Programme: Gyan Vigyan

Edition: Electronic

Journalist: NA

Professor: Prof. Abhijit Deshpande P

Alumni/students: Ravi Khatri & Sarath Kumar

Headline: New Device to help farmers

URL: <https://www.youtube.com/watch?v=bKlsE945PJ0&feature=youtu.be&a>



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Journalist: NA

Professor: Prof. T. Pradeep

Headline: New technologies are offering innovative ways for cities to ensure there is an adequate supply of safe, clean water

URL: <https://smartcitiesworld.net/special-reports/urban-aquabatics>

New technologies are offering innovative ways for cities to ensure there is an adequate supply of safe, clean water

Water sustainability is a growing challenge for cities worldwide. Factors such as climate change, population growth and urbanisation are putting cities' water supplies under strain.

Already, estimates from UNESCO suggest that 663 million people lack ready access to improved* sources of drinking water, while the number of people without reliable access to water safe for human consumption is at least 1.8 billion.

New technologies are offering innovative ways for cities to ensure there is an adequate supply of safe, clean water.

Tapping new water sources to manage drought

The City of Cape Town in South Africa has been internationally recognised for its Water Conservation and Demand Management [WCWDM] Programme, a strategy which aims to minimise water wastage, better balance available water resources, and postpone the need for expensive capital infrastructure projects. However, the urgency of the schedule has been intensified by the fact that the region is currently experiencing a drought which the Mayor declared an official disaster in March.

An internal taskforce has been set up to tackle the issue, supported by an external advisory board.

Councillor Xanthea Limberg, Mayoral Committee Member for Informal Settlements, Water and Waste Services & Energy, Cape Town, comments, "We need to ensure that we dramatically shift how the city thinks of and consumes water, especially given the current rainfall patterns and the unpredictability of weather forecasts. We have to become a far more adaptable and resilient city."

The city has implemented measures to manage water usage such as Level 4B restrictions, increased tariffs and the roll-out of water management devices which can restrict residents' water supply to a certain level.

However, the situation is so severe, Cape Town also needs to look at how it can access additional water. One measure is to tap into previously unused water sources by drilling boreholes into the local Table Mountain Group aquifer, and connecting them to the reticulation system. An aquifer is a body of

permeable rock which can contain or transmit groundwater. A pilot project will now be undertaken which will inform larger-scale use of this resource.

Cape Town is also looking at setting up desalination plants and possibly water reclamation plants to diversify its water mix on a large scale. Pilot projects for these options are also being implemented as a matter of urgency, and are being designed in such a way that they can be scaled up quickly, if necessary.

“We are constantly engaging to understand what other alternatives are available to the city that we can incorporate into our water supply plan,” says Limberg.

The city recently put out a city-wide request for new ideas, for example, and the water department also has a new technologies unit, specifically in place to look out for new innovations and assess their relevance for Cape Town’s needs.

Cleaning water closer to home

A lack of local drinking water sources has been a long-term challenge in the City of San Diego – now, advanced technology and improved public support are changing this.

Historically, San Diego has relied on importing between 80 and 90 per cent of its water supply from the Colorado River and Northern California Bay Delta. The cost of this imported water has tripled in the last 15 years and continues to rise.

“With limited local control over our water supply, the City of San Diego is more vulnerable to droughts, climate change and natural disasters,” explains J. Brent Eidson, External Affairs, Deputy Director, Public Utilities, City of San Diego.

Pure Water San Diego is the City’s phased, multi-year program which aims to provide one-third of San Diego’s water supply locally by 2035. Recycled water is taken from the North City Reclamation Plant and treated through a series of high-tech processes: Membrane filtration, reverse osmosis and UV disinfection with advanced oxidation. For regulatory reasons the purified water is then detained in an ‘environmental buffer’ (the Miramar Reservoir) as per regulations, before being blended into the drinking water system.

The first phase of the implementation will be completed in 2021, and by then the city expects to provide 30 million gallons of purified water per day -- which is between 15-18 per cent of the city’s water supply.

Although new technologies are helping to solve city challenges, they have to be rigorously tested first, says Eidson. He explains, “State and federal regulators aren’t as nimble as we can be at the local level. So when we’re evaluating technology, what we need to make sure is that it’s going to meet the regulatory requirements of those agencies. In the case of the Pure Water plant, for example, we had a demonstration plant to show that the new technology meets the requirements of our regulators.”

New materials lower costs

In many cases the challenge is being able to implement new technologies in a cost-effective way. Scientists at the Indian Institute of Technology-Madras (IIT-M), led by Professor T. Pradeep, are developing new materials which lower the cost of water purification. The ability to deploy these on a wide scale could have a significant impact on public health issues.

For example, the World Bank suggests that 65 million people in Asia alone are facing health risks due to arsenic contamination of their drinking water. Long-term exposure can lead to chronic arsenic poisoning. Skin lesions, cancer, high blood pressure and reproductive disorders are among the effects.

Professor Pradeep and his team have developed an arsenic filter using nano-filtration technology –based on new types of absorbents which can be produced affordably and without electricity. The filtration device has been successfully tested in West Bengal and the Indian government has approved the technology.

Professor Pradeep comments, “The technology could provide a family with clean, arsenic-free drinking water for a year for the equivalent of around £2 per year.”

Beyond India it is also being trialled in South Africa, Australia, Argentina, and Bangladesh, although has not been commercially rolled out there yet.

Pradeep is now also researching other advanced water technologies such as a scalable system for reducing the concentration of fluoride in water, a way to collect and use dew, cheaper water quality sensors, and desalination processes which don’t remove all the minerals from water.

Real-time insights drive results

In addition to finding new sources of water and cleansing it effectively, Internet of Things (IoT) technology is increasingly helping businesses and residents get more actionable insights into their water usage. It is also enabling cities, businesses and utilities to better share infrastructure and data in order to reduce duplicated spending and track trends.

In the city of Charlotte in the US, 61 commercial buildings were able to reduce their energy consumption by 19% over five years, which equated to \$26 million in energy bill savings. This was achieved through an initiative run by Envision Charlotte, a public-private ‘plus’ collaboration (with the plus being the utility company and the university), and involved interventions such as tenant outreach and education, as well as access to real-time granular data on energy usage.

Emily Yates, Deputy Director of Envision Charlotte, commented: “Having that granular data provided more of a real-time status, and empowered the building operators to make adjustments to reduce energy consumption – and many of these were actually low-cost and no-cost actions such as adjusting thermostats and turning lights off at night. We are now hoping to have the same results with drastic water consumption reduction.”

In partnership with technology company Itron and Charlotte Water, Envision Charlotte is running a pilot network of smart water meters in 18 of its uptown commercial buildings. The buildings share a dashboard but the data is anonymised. It allows building owners to analyse their water usage compared to the other buildings annually and monthly, as well as see a more detailed daily water consumption chart. This highlights areas where they could be doing more to manage water efficiently and also quickly flags any unusual data which could suggest a leak or similar issue in the building.

Yates said: “Leveraging utilities and having them at the table for conversations has been extremely valuable for the work that we’ve been doing. It takes a cross-sector, collaborative approach to be successful in smart cities.”

While water pressures are widespread, the specific issues vary from place to place. The challenge for cities is to choose the right technology and partner mix to enable them to respond in a manner that is timely, cost-effective, compliant and scalable.

* An ‘improved water source’ is defined as one where human use is kept separate from use by animals and faecal contamination. However, water from an ‘improved source’ is not necessarily free of bacteria or other contamination and is not necessarily safe (Source UNESCO)

Date: 20th July 2017

Publication: Patrika

Edition: Online

Journalist: NA

Headline: IIT Madras develop technique to stop animals from destroying crops

URL: <http://www.patrika.com/news/science-tech/iit-madras-scientists-develop-technique-that-will-stop-animals-from-destroying-crops-1626748/>

IIT Madras के वैज्ञानिकों की खोज, अब फसल बर्बाद नहीं कर पाएंगे जानवर

Updated: 2017-07-19 15:52:37 IST



जैसे ही कोई जानवर करीब आता है, इसमें लगे सेंसर उसकी उपस्थिति भांप लेते हैं और उपकरण में लगी लाइटें जलने लगती हैं

चेन्नई। भारतीय प्रौद्योगिकी संस्थान (आईआईटी), मद्रास के दूरल टेक्नोलॉजी एक्शन ग्रुप फॉर तमिलनाडु के शोधकर्ताओं ने ऐसा सेंसर सिस्टम विकसित किया है, जो अलार्म और रोशनी के जरिए खेत में जानवरों की मौजूदगी की सूचना देकर किसानों को सतर्क करेगा। इसे आईआईटी-मद्रास के छात्र रवि खत्री और एस. सरथ ने मिलकर तैयार किया है।

इसे खेत से 10 मीटर की दूरी पर लगाया जाता है। जैसे ही कोई जानवर करीब आता है, इसमें लगे सेंसर उसकी उपस्थिति भांप लेते हैं और उपकरण में लगी लाइटें जलने लगती हैं। अलार्म भी बजने लगता है। इससे डरकर जानवर दूर से ही भाग जाते हैं। किसान को भी पता चल जाता है कि खेत में जानवर घुस आया है।

सेंसर सिस्टम करेगा अलर्ट

इस यंत्र में 2 सेंसर लगाए गए हैं। एक पैसिव इंफ्रारेड व दूसरा माइक्रोवेव सेंसर। इसके अलावा एक अलार्म व रोशनी की तकनीक भी लगी है। इसके प्रोटोटाइप का परीक्षण आईआईटी-मद्रास के परिसर में हिरणों की मौजूदगी को जांचने में किया जा रहा है। प्रयोग सफल रहने पर अगस्त में चेन्नई के नेकुत्र क्षेत्र में इसे लगाया जाएगा। इसमें लगे पैसिव इंफ्रारेड सेंसर जानवर के शरीर के तापमान से प्रभावित होता है और माइक्रोवेव सेंसर जानवर की मौजूदगी को भांप लेता है। अभी इस उपकरण को बैटरी से चलाया जाता है। भविष्य में इसे सौर ऊर्जा की मदद से चलाने की संभावना को तलाशी जा रही है।

रख-रखाव आसान

यह उपकरण इस प्रकार से विकसित किया गया है कि एक फसल लेने के बाद, जब खेत खाली हो तो किसान इसे आसानी से निकालकर सुरक्षित रख सकते हैं। जब किसान दोबारा फसल उपजाएं तो इस उपकरण को खेत में फिर से लगा सकते हैं। इस उपकरण की कीमत भी अधिक नहीं है। मात्र दो हजार रुपए में आने वाले इस उपकरण का रख-रखाव भी काफी आसान है। अच्छी बात यह है कि जानवर इस उपकरण का कोई नुकसान नहीं पहुंचा सकता। फिलहाल इस यंत्र को खेत से पांच से दस मीटर की दूरी पर लगाया जाता है।

Date: 21st July 2017

Publication: News 18

Edition: Online

Journalist: NA

Headline: IIT Madras Techniques to Reduce Arsenic In Drinking Water

URL: <http://hindi.news18.com/news/nation/iit-madras-invented-a-technique-to-reduce-arsenic-in-drinking-water-1052130.html>

आईआईटी मद्रास ने पेयजल में आर्सेनिक की मात्रा को कम करने के लिए ईजाद की तकनीक

आईआईटी मद्रास के एक ऐसी तकनीक विकसित की है जो पेयजल में आर्सेनिक की मात्रा को काफी हद तक कम कर देगा. इस प्रौद्योगिकी को 'अमृत' नाम दिया गया है.

लोकसभा में एक प्रश्न के उत्तर में पेयजल एवं स्वच्छता राज्य मंत्री रमेश चंदप्पा जिगाजिनागी ने कहा, "आईआईटी-मद्रास ने पेयजल में आर्सेनिक की मात्रा 0.01 मिलीग्राम प्रति लीटर के स्तर से कम करने के लिए एक प्रौद्योगिकी का विकास किया है. इस प्रौद्योगिकी को 'अमृत:आर्सेनिक एंड मेटल रिमूवल बाई इंडियन टेक्नोलॉजी: नाम दिया गया है."

उन्होंने कहा, " इस प्रौद्योगिकी में नैनो स्केल का आयरन ऑक्सी हाइड्रोक्साइड का प्रयोग होता है जो उससे गुजरने वाले आर्सेनिक को ढूंढकर अलग करता है. यह जल प्यूरीफायर के लिए विकसित किया गया है." मंत्री ने कहा कि आईआईटी-मद्रास द्वारा विकसित यह प्रौद्योगिकी घरेलू और सामुदायिक दोनों स्तर पर उपलब्ध है.

Date: 24th July 2017

Publication: Down To Earth

Edition: Magazine

Page no.: 12

Journalist: Dinesh Sharma:

Headline: IIT Madras develops surgical robot

URL: <http://www.downtoearth.org.in/news/iit-madras-develops-surgical-robot-for-medical-colleges-58194>

IIT Madras develops surgical robot

A TEAM of researchers led by IIT Madras has developed a surgical robot that can perform abdominal surgeries. The robot is estimated to cost between ₹60 lakh to ₹70 lakh. Since medical colleges use surgical robots for training, a trainer robot is a feasible option as a commercial robot costs around ₹12 crore. Surgical robots not only increase precision but also reduce

chances of complications. Although this will address the problem of prohibitive cost, for any developmental robot to be used on a large scale, a lot remains to be done, say robotic surgeons. The IIT Madras team collaborated with urologists from PSG Medical College, Coimbatore, Tamil Nadu, and an industrial partner to create the robot. ■

Date: 27th July 2017

Publication: The Hindu- Metro Plus

Edition: Chennai

Page no.: 5

Journalist: Naveena Vijayan

Professor: Prof. Arun Menon

Headline: Conserving history, brick by brick

URL: <http://www.thehindu.com/society/history-and-culture/conserving-history-brick-by-brick/article19365025.ece>



Old-world charm
(Clockwise from left)
Kalakshetra
Foundation,
Kedarnath temple,
and Dr. Setyanurthy,
founder-president of
REACH, inspecting
the stucco work on
the 500-year-old
Vardaraja Perumal
temple in
Kanchipuram. **ARABINDO**

Conserving history, brick by brick

Meet conservators in the city who are helping keep heritage structures intact

by NAVEENA VIJAYAN

It is easy to build a new house, what is difficult is to restore an old one, says architect Benny Kuriakose. Conservation of heritage can be tricky. For, it is a field where one values the creativity of the original creator more than one's own. The focus is on doing work that is as unnoticeable as possible — just like the restoration of a Van Gogh painting, or a sculpture by Michelangelo. Tourists come to see the art because it is Gogh's or Michelangelo's art, and they want it to be as it was when it was first done. "So any intervention should be minimum and only done if it is absolutely necessary," says Kuriakose, who has restored and renovated the houses at Dakshinachitra, the 300-year-old Pulam Palace as part of Muziris Heritage Project, and renovated Kalakshetra theatre (in 2015), among others. For the latter, "the biggest compliment I got was: if Appakumar Nair (the architect of Kalakshetra Foundation) was here, he would have liked it".

The challenge

Most people, however, consider restoration as bringing down a piece of history and building a new one in its stead. For instance, the Deswaraja temple is 80% new, points out Kuriakose. "How can you call it a 1,500-year-old temple any more?" he asks. There is a lack of awareness about heritage structures and the concept of restoration, chips in J. Chandrasekaran, spokesperson of REACH Foundation. And organisations such as REACH and Aga Khan Foundation and architects such as Kuriakose



STAY CLEAR

Unless 50% of the building is damaged, do not restore it. It is important to record the condition of the building before intervention, and the use of the methods and materials should be documented.

Even during restoration, the historic relevance should not be destroyed, and any work done should be governed by respect for aesthetic, historical and physical integrity of the cultural property.

Additions should be less noticeable than the original material. Any intervention should be minimum and reversible if technically possible. No attempt should be made to artificially age materials.

and Abha Namin Lambel are just a few names who are championing the cause of conservation.

Chandrasekaran throws light on the many structures that have been demolished without a thought by people who are absolutely unaware that "any heritage temple beyond 100 years if altered or broken down without the knowledge of archaeological department would attract punishment." It was a taxi driver, also a member of REACH (it has 800 members from diverse fields connected by their passion for heritage conservation), who first saw the dilapidated condition of the ancient Thandurai Shiva temple, recalls Chandrasekaran. When a team from REACH went to inspect the temple, they saw the nearby Perumal temple, renovated into a colourful "modern tiled mega bathroom like" structure!

All heritage buildings have hundreds of stories to tell. Each building should be considered a living thing

Promoting awareness

This is the real plight of many such temples today. Stones and inscriptions of the old temples are pulled down. REACH aims to better the situation, help people know about their heritage, and value it, through lectures, epigraphy and inscription reading classes and field visits. Jayaraman says that over the past few years, there have been an increasing number of youngsters who have been volunteering with

REACH for the restoration projects. "Tamil Nadu has close to 1,25,000 temples, and our aim is document all of them."

Extending research and support towards heritage conservation, is also a group called National Centre for Safety of Heritage Structures at IITM. The group was started in 2013, with the aim of providing a platform to share knowledge with the public, and also to improve collaborative R&D between academia and implementing agencies. Today, one of their projects includes monitoring five heritage structures: Rajon Building, Victoria Public Hall, Sadiqul Khan, Law College and Tamil Nadu Hotel, that are along the line of the underground Metro rail work. The buildings are checked constantly for any faults due to the impact of the metro construction, says Arun Menon, assistant professor, Civil Engineering, IITM. The centre has provided technical assistance in structural conservation works at Madras High Court Complex (terrace waterproofing works, for TN PWID), Kedarnath Temple, Uttarakhand (for Archaeological Survey of India), Rashtrapati Bhawan (for INTACH and CPWD), and Bharat Insurance building, Mount Road (for LIC) among others.

"All the heritage buildings have hundreds of stories to tell, each building should be considered a living thing. In the past, the traditional craftsmen used to assign a gender to each stone: male, female, gender neutral," says Kuriakose. One has to go beyond seeing a house as just brick and stone, and understand the cultural context.



Date: 29th July 2017

Channel: Rajya Sabha TV- Gyan Vigyan

Edition: Electronic

Journalist: Ms. Bhavya Khullar

Professor: Prof. Asokan Thondiyath

Headline: IIT-Madras makes Robotic Surgery Trainers

URL: <https://www.youtube.com/watch?v= 21d2RYoNRk>



Date: 29th July 2017

Channel: Rajya Sabha TV- Science Monitor

Edition: Electronic

Journalist: Ms. Bhavya Khullar

Professor: Prof. Asokan Thondiyath

Headline: IIT-Madras makes Robotic Surgery Trainers

URL: https://www.youtube.com/watch?v=YE5A2_mZtms



**IIT Madras is an innovation
and entrepreneurship hub**

Date: 4th July 2017

Publication: Hindustan Times

Edition: Online

Journalist: NA

Professor: Prof Bhaskar Ramamurthi, Prof R Nagarajan, Prof Nandan Sudarsanam, Prof Rahul Marathe, Prof N Ramesh Babu, Prof Shankar Narasimhan, Prof Raghunathan Rengaswamy, Prof Ashwin Mahalingam, Prof Mahesh Panchagnula, Prof Sankara J Subramanian, Prof R Krishnakumar, Prof B Ravindran, Prof Mohanasankar Sivaprakasam and Prof Sathyan Subbiah

Headline: IIT Madras talks innovation: Connects faculty with alumni and startups in sunny California

URL: <http://www.hindustantimes.com/education/iit-madras-talks-innovation-connects-faculty-with-alumni-and-startups-in-sunny-california/story-DI6TjNvDKepT4qma8VR1DK.html>

IIT Madras talks innovation: Connects faculty with alumni and startups in sunny California

IIT Foundation organised the Summer 2017 Summit at Santa Clara in California to enable faculty and alumni to get together and chalk out future plans, discuss innovations and more

It was all about making plans for the future, discussing innovations, reaching out to alumni, addressing problems and looking for opportunities that could make an impact globally. For the Indian Institute of Technology (IIT) Madras, this could only happen in sunny California. The Foundation Series - Summer 2017 Summit at Santa Clara, California, organised by the IIT Foundation, recently brought together the IIT Madras community, faculty, start-ups and alumni to collaborate with each other and with innovators in industry, academia, and think tanks.

Discussions ranged around technologies that enable Industry 4.0; capturing data and data sources (research on sensors and other devices that help capture data), communicating this data between machines and other devices/sensors/data sources; data analytics, modelling and simulation to use this data effectively. Also analysed was the actual manufacturing/automation/making process that is the end result (3D printing, creation of new applications, tools, devices, products, robots, systems such as Internet of Things or IOTs).

In the first such event organised by the IIT Madras Foundation, 15 academics and seven start-up founders from IIT Madras took part along with 22 industry leaders from the Bay Area.

In his address to the gathering, Prof Bhaskar Ramamurthi, director, IIT-Madras, shared news of the institute being ranked the best engineering institute in India by the National Institute Ranking Framework (NIRF), two years in a row. It also earned the highest revenues through consultancy projects for any engineering institute; and ranked among the top research groups in the world.

“While the event was a grand success and we may have exceeded the expectations of many, we also learned a lot. We need to use this as a launchpad, build on this momentum, and take this to the next level in the coming years,” he later said after the event concluded.



Professor Bhaskar Ramamurthi, director, IIT Madras, addressing the Foundation Series - Summer 2017 Summit held at Santa Clara, California (Sourced)

Calling the meet a huge success, Prof R Nagarajan, dean, international and alumni relations, IIT Madras, said it would be replicated in the future in other cities where IIT Madras alumni were present in significant numbers.



One of the sessions at the Summit (Sourced)

“While the director (Prof Bhaskar) and myself have been travelling abroad and meeting local alumni, this is the first time an event of such magnitude has been organised, enabling direct interaction with IIT-Madras faculty members who are active researchers in Industry 4.0,” he said

Other highlights were an IIT-Madras faculty panel elaborating on their research in healthcare technology, industrial consultancy and sponsored research and the interdisciplinary laboratory for data sciences.

This was followed by six interactive panel discussions on medicine, artificial intelligence and analytics, buildings and infrastructure, agriculture, manufacturing and energy. These panels had a blend of industry experts and venture capitalists offering their view of the innovative ideas and solutions attracting venture capital funding, while the IIT-Madras faculty members articulated the key research areas and problems they were trying to address.

Other faculty members from IIT-Madras included Prof Nandan Sudarsanam, Prof Rahul Marathe, Prof N Ramesh Babu, Prof Shankar Narasimhan, Prof Raghunathan Rengaswamy, Prof Ashwin Mahalingam, Prof Mahesh Panchagnula, Prof Sankara J Subramanian, Prof R Krishnakumar, Prof B Ravindran, Prof Mohanasankar Sivaprakasam and Prof Sathyan Subbiah.

Date: 4th July 2017

Publication: Telangana Today

Edition: Online

Journalist: NA

Professor: Prof. Bhaskar Ramamurthi

Headline: IIT Madras community gathers in US to discuss tech with industry bigwigs

URL: <https://telanganatoday.com/iit-madras-us-tech>

IIT Madras community gathers in US to discuss tech with industry bigwigs

This was the first such event organised by IIT Madras Foundation. Fifteen academics and seven start-up founders from IIT Madras took part along with 22 industry leaders from the Bay Area.

Hyderabad: The IIT Madras Foundation recently organised the Foundation Series Summer 2017 Summit in Santa Clara, California, US, a statement issued by the foundation said.

The purpose of the summit was to bring together the IIT Madras community, including faculty, related start-ups and alumni. The team would collaborate with each other and with innovators in industry, academia, and think tanks. They will address problems and tap opportunities which could be global in nature.

Some of the topics discussed during this summit include:

- Technologies that enable Industry 4.0. These could be virtual/augmented reality technologies.
- Capturing data and data sources, which is to say, research on sensors and other devices that help capture data.
- Communicating this data between machines and other devices/sensors/data sources.
- Data analytics, modelling and simulation to use this data effectively
- The actual manufacturing/automation/making process that is the end result. This could be 3D printing, creation of new applications, tools, devices, products, robots, systems such as IOT (Internet of Things).

This was the first such event organised by IIT Madras Foundation. Fifteen academics and seven start-up founders from IIT Madras took part along with 22 industry leaders from the Bay Area.

Addressing the event, Prof Bhaskar Ramamurthi, IIT-Madras director, highlighted key achievements of IIT Madras. After the event, Prof Ramamurthi said, "While the event was a grand success and we may have exceeded the expectations of many, we also learned a lot. We need to use this as a launchpad, build on this momentum, and take this to the next level in the coming years."

At this meeting, the panel of IIT-Madras faculty elaborated their research in healthcare technology, industrial consultancy and sponsored research, and the interdisciplinary laboratory for data sciences.

This was followed by six interactive panel discussions on medicine, artificial intelligence and analytics, buildings and infrastructure, agriculture, manufacturing, and energy.

These panels had a blend of industry experts and venture capitalists offering their view of the innovative ideas and solutions that is attracting venture capital funding, while the IIT-Madras faculty members articulated the key research areas and problems they are trying to address.

Date: 4th July 2017

Publication: India Education Diary

Edition: Online

Journalist: NA

Professor: Prof Bhaskar Ramamurthi, Prof R Nagarajan, Prof Nandan Sudarsanam, Prof Rahul Marathe, Prof N Ramesh Babu, Prof Shankar Narasimhan, Prof Raghunathan Rengaswamy, Prof Ashwin Mahalingam, Prof Mahesh Panchagnula, Prof Sankara J Subramanian, Prof R Krishnakumar, Prof B Ravindran, Prof Mohanasankar Sivaprakasam and Prof Sathyan Subbiah

Headline: IIT Madras Foundation holds Summer 2017 Summit in California

URL: <https://indiaeducationdiary.in/iit-madras-foundation-holds-summer-2017-summit-california/>

Chennai: IIT Madras Foundation organized the Foundation Series – Summer 2017 Summit at Santa Clara, California, recently. The purpose of the summit was to bring together IIT Madras community, faculty, start-ups and alumni to collaborate with each other and with innovators in industry, academia, and think tanks to address problems and opportunities that could be global in nature.

Some of the topics that were discussed during this summit include

- Technologies that enable Industry 4.0 (these could be virtual/augmented reality technologies for instance),
- Capturing Data and Data Sources (research on sensors and other devices that help capture data),
- Communicating this data between machines and other devices/sensors/data sources,
- Data Analytics, Modelling and Simulation to use this data effectively, and
- The actual Manufacturing/Automation/Making process that is the end result (this could be 3D printing, creation of new applications, tools, devices, products, robots, systems such as IOTs (Internet of Things)).

This was first such event organized by IIT Madras Foundation. Fifteen academics and seven start-up founders from IIT Madras took part along with 22 industry leaders from the Bay Area.

Addressing the event, Prof. Bhaskar Ramamurthi, Director, IIT-Madras, highlighted key achievements of IIT Madras:

- IIT-Madras was ranked the best engineering institute in India by National Institute Ranking Framework (NIRF), two years in a row
- IIT-Madras earned the highest revenues through consultancy projects for any engineering institute
- Four out of five start-ups at the Economic Times National Start-up contest came from IIT-Madras Incubation Centre
- IIT-Madras ranks among the top research groups in the world
- The Healthcare incubator, Healthcare Technology Innovation Centre, at IIT-Madras is the premier incubator of its kind in India

Post-event, Prof. Bhaskar Ramamurthi said “While the event was a grand success and we may have exceeded the expectations of many, we also learned a lot. We need to use this as a launchpad, build on this momentum, and take this to the next level in the coming years.”

Speaking during the programme, Prof. R. Nagarajan, Dean, International and Alumni Relations, IIT Madras, said, “While the Director (Prof. Bhaskar) and myself have been travelling abroad and meeting local alumni, this is the first time an event of such magnitude has been organized, enabling direct interaction with IIT-Madras faculty members who are active researchers in Industry 4.0”

“For a first-time event, this was hugely successful and will be replicated in the future in other cities abroad where our (IIT-Madras) alumni are present in significant numbers.”

Prof. Krishnan Balasubramaniam, Dean, Industrial Consultancy and Sponsored Research, IIT-Madras spoke about the various collaborations with the industry undertaken by the institute.

At this meeting, the panel of IIT-Madras faculty elaborated their research in Healthcare Technology, Industrial Consultancy and Sponsored Research and the Interdisciplinary Laboratory for Data Sciences.

This was followed by six interactive panel discussions on Medicine, Artificial Intelligence and Analytics, Buildings and Infrastructure, Agriculture, Manufacturing and Energy. These panels had a blend of industry experts and Venture Capitalists offering their view of the innovative ideas and solutions that is attracting venture capital funding, while the IIT-Madras faculty members articulated the key research areas and problems they are trying to address.

Other faculty members from IIT-Madras who participated in the event include Prof. Nandan Sudarsanam, Prof. Rahul Marathe, Prof. N. Ramesh Babu, Prof. Shankar Narasimhan, Prof. Raghunathan Rengaswamy, Prof. Ashwin Mahalingam, Prof. Mahesh Panchagnula, Prof. Sankara J Subramanian, Prof. R. Krishnakumar, Prof. B. Ravindran, Prof. Mohanasankar Sivaprakasam and Prof. Sathyan Subbiah.

Date: 5th July 2017

Publication: Hindustan Times

Edition: Delhi

Page no: 1

Journalist: NA

Headline: IIT Madras has a new California connection

IIT Madras has a new California connection

HT Correspondent

✉ letters@htw.com

NEW DELHI: It was all about making plans for the future, discussing innovations, reaching out to alumni, addressing problems and looking for opportunities that could make an impact globally. For the Indian Institute of Technology (IIT) Madras, this could only happen in sunny California.

The Foundation Series - Summer 2017 Summit at Santa Clara, California, organised by the IIT Foundation, recently brought together the IIT Madras community, faculty, start-ups and alumni to collaborate with each other and with innovators in industry, academia, and think tanks.

Discussions ranged around technologies that enable Industry 4.0; capturing data and data sources (research on sensors and other devices that help capture data), communicating this data between machines and other devices/sensors/data sources; data analytics, modelling and simulation to use this data effectively. Also analysed was the actual manufacturing/automation/making process that is the end result (3D printing, creation of new applications, tools, devices, products, robots, systems such as Internet of Things or IOTs).

In the first such event organised by the IIT Madras Foundation, 15 academics and seven startup founders from IIT Madras took part along with 22 industry leaders from the Bay Area.

Date: 8th July 2017

Publication: The Times of India

Edition: Chennai

Page no.: 5

Journalist: NA

Professor: Prof. Gaurav Raina

Alumni: Tanmai Gopal

Headline: IIT-M offers free app devpt course, 83K students enroll

IIT-M offers free app devpt course, 83K students enrol

TIMES NEWS NETWORK

Chennai: IIT Madras is offering an opportunity to all those with basic programming skills to learn mobile Apps development for free in eight weeks from July 24.

The free online course 'Introduction to Modern Application Development (IMAD)' is a free Massive Open Online Course offered by IIT- and Hasura, a core technology start-up.

More than 83,000 students have registered for the course since its inception and have come up with more than 6,700 apps. Students who successfully complete the course get a certificate from IIT Madras.

Around 430 candidates have landed internships with start-ups. To register

visit www.imad.tech.

A 20-minute course video will be available online on YouTube and can be viewed anytime. The course can be taken up from home through internet.

IIT-M Department of Electrical Engineering assistant professor Gaurav Raina and a visiting research fellow in the Statistical Laboratory at Cam-

ONLINE LEARNING

bridge University along with Hasura co-founder and chief technology officer Tanmai Gopal, who is also an alumnus of IIT Madras from the Department of Computer Science and Engineering.

The course is meant for college students and working professionals.

Date: 8th July 2017

Publication: Deccan Chronicle

Edition: Chennai

Page no.: 5

Journalist: NA

Professor: Prof. Gaurav Raina

Alumni: Tanmai Gopal

Headline: IIT-M's app designing becomes largest online tech course

URL: <http://www.deccanchronicle.com/nation/current-affairs/080717/iit-madras-app-designing-becomes-largest-online-tech-course.html>

■ Students, IT professionals can register for eight-week online course until July 24

IIT-M's app designing becomes largest online tech course

DC CORRESPONDENT
CHENNAI, JULY 7

With over 83,000 students and professionals enrolled so far, the eight-week long mobile app design course offered by IIT Madras has become largest online tech course in the country.

IIT Madras is offering an opportunity to all those basic programming skills to learn app development. The free online course called IMAD (Introduction to Modern Application Development) will start from July 24. Students and professionals can register at www.imad.ernet.in till July 24.

"On an average around 2 per cent of the registered candidates will complete an online course. Of 83,000 candidates, more than 7 per cent of them have cleared the course so far which is way ahead compared to other courses," said Gaurav Raina, Assistant Professor,

● The free online course called IMAD (Introduction to Modern Application Development) will start from July 24. Students and professionals can register up to the given date

Department of Electrical Engineering, IIT Madras.

By enrolling into the course, one can learn to develop mobile applications.

"The students who took the course have developed 6,700 apps. Around 450 candidates have got the internships with the companies like Mastercard and Swiggy after completing the course," he said.

More than 26 companies are internship partners to the course.

The course was started September and it will be

conducted twice a year.

In view of layoffs, this course can actually serve as hope for the IT professionals.

"The skills that IT professionals have are old technology skills. We are teaching modern technology skills. Because it's modern technology no engineering institute actually teaches these skills," Gaurav Raina said.

The course has attracted 1,000 candidates from 20 foreign countries as well.

Gaurav Raina and Tanmai Gopal, Chief Technology Officer and co-founder of Hasura, a core technology startups are conducting the course through NPTEL.

The IMAD tech website also has resources required to learn or to brush up required programming basics. The course will have five modules including the introduction to internet, common network protocols

MOBILE APP COURSE STATISTICS

■ Total number of registered students	- 83,190
■ From outside India	- 1,500
■ Number of internships offered	- 450

DEMOGRAPHIC DISTRIBUTION OF STUDENTS

■ College students - 64% (more than 53,000 registrations)
■ Working professionals - 15% (more than 15,000 registrations)
■ Faculty and educators - 2% (more than 1,800 registrations)

and building the basic web application and how to ensure security for an application.

The course will have



STUDENT PROFILES

■ 13-20 years age group	- 35%
■ 20-40 years age group	- 58%
■ 40+ years age group	- 6%

graded assignments and a final test to help one remain focused through the course.

In addition, an examination (optional) will be conducted on completion of the course and on successfully clearing it students can obtain the certificate from IIT Madras.

Date: 8th July 2017

Publication: The Hindu Business Line

Edition: Chennai / Delhi / Mumbai / Pune / Bangalore / Hyderabad / Kolkata / Kochi / Ahmedabad

Page no.: 7

Journalist: NA

Headline: IIT Madras offers online app development course

URL: <http://www.thehindubusinessline.com/news/education/iit-madras-offers-online-app-development-course/article9754019.ece>

IIT Madras offers free online app development course

OUR BUREAU

Chennai, July 7

IIT Madras will offer an online, eight-week app development course through NPTEL for free.

'Introduction to Modern Application Development', or IMAD, is a free massive open online course (MOOC) offered by IIT Madras and Hasura, a core technology start-up.

The course will include: introduction to the internet and its common network protocols, and ways to build a basic but complete web application; learn the how and why of modelling data for your application using databases; learn about performance; how to ensure security for an application; and learn how to build your own mobile application.

IMAD will start on July 24 and registration can be done at www.imad.tech, says an IIT Madras press release.

Date: 8th July 2017

Publication: Dinamani

Edition: Chennai

Page no.: 18

Journalist: NA

Headline: How to Design Mobile Apps? Free training at IIT Madras

மொபைல் ஆப். வடிவமைப்பது எப்படி?

சென்னை ஐஐடி சார்பில் இலவசப் பயிற்சி



சென்னை, ஜூலை 7: செல்லிடப்பேசி அப்ளிகேஷன்களை உருவாக்குவது குறித்து இலவச ஆன்-லைன் பயிற்சியை சென்னை ஐஐடி அறிமுகம் செய்துள்ளது.

இது ஒரு திறந்தநிலை ஆன்-லைன் பயிற்சித் திட்டமாகும். இந்த 8 வார கால பயிற்சியில் யார் வேண்டுமானாலும் சேர்ந்து படிக்கலாம். படிப்பை வெற்றிகரமாக முடிப்பவர்களுக்கு ஐஐடி சார்பில் சான்றிதழ் வழங்கப்படும்.

இதன் மூலம், மாணவர்கள் மட்டுமன்றி, ஏற்கெனவே இந்தத் துறை சார்ந்த பணியில் இருப்பவர்களும் திறனை மேம்படுத்திக்கொள்ள முடியும்.

இந்தப் பயிற்சி ஜூலை 24-இல் தொடங்கப்பட உள்ளது. இந்தப் பயிற்சித் திட்டத்தைப் பொறுத்தவரை, ஒரு 20 நிமிட பாடத்திட்ட விரியோ ஆன்-லைனில் இடம்பெற்றிருக்கும். அதை எப்போது வேண்டுமானாலும் மாணவர்கள் பார்க்க முடியும். விரியல் இருந்தாலுமே பயிற்சித் திட்டத்தில் பங்கேற்க முடியும். பயிற்சியின் முடிவின் இறுதியில் தேர்வு நடத்தப்படும்.

இதில் சேர விரும்புவர்கள் www.imad.tech என்ற இணையதளம் மூலம் ஆன்-லைனில் பதிவு செய்ய வேண்டும் என சென்னை ஐஐடி தெரிவித்துள்ளது.

Date: 8th July 2017

Publication: India Education Diary

Edition: Online

Journalist: NA

Professor: Prof. Gaurav Raina

Alumni: Tanmai Gopal

Headline: Learn to design 'Mobile Apps' from IIT Madras

URL: <https://indiaeducationdiary.in/learn-design-mobile-apps-iit-madras/>

Learn to design 'Mobile Apps' from IIT Madras

Chennai: India produces lakhs of engineers every year who aspire to enter the tech industry. However, there's a skill gap between market needs and what students have learnt.

In this difficult job environment, with massive layoffs predicted in the near future, both working professionals and college students are looking for ways to upgrade their skill sets and learn the latest technologies.

Introduction to Modern Application Development or IMAD, is a free MOOC (Massive Open Online Courses) – offered by Indian Institute of Technology, Madras and Hasura, a core technology start-up – which aims to bridge this skill gap.

IIT Madras is offering an opportunity to all those with basic programming skills to learn App development in eight weeks. The Institute will be starting the free online course IMAD from 24th July 2017.

Through this course, one can learn to develop mobile applications, popularly known as 'Apps' which have become an integral part of our everyday lives.

More than 83,000 students have registered for the course so far, making it India's largest MOOC. They have come up with more than 6,700 apps. Around 430 candidates have landed internships with start-ups. Students who successfully complete the course get a certificate from IIT Madras.

The top students from IMAD are also eligible for product development internships at Hasura. These internships give the students an opportunity to hone their app development skills in the real world and provide much needed exposure to industry.

The course will be broken into 5 modules that will be covered over 8 weeks:

1. Introduction to the Internet, and its common network protocols
2. Build a basic but complete web application
3. Learn the how and why of modelling data for your application using databases
4. Learn about performance and how to ensure security for an application
5. Learn how to build your own mobile application

Registration for the course has begun and can be done by visiting www.imad.tech. The website also has resources required to learn or to brush up required programming basics.

Besides being free for everyone, anywhere, the course strives for the right balance between theory and practice by focusing on building an application quickly while also ensuring that it never breaks.

A 20-minute course video will be available online on YouTube and can be viewed anytime. One can take the course even from the comfort of their home. The course will have graded assignments, and a final test to help one remain focused through the course.

The course will be conducted by Prof. Gaurav Raina, Assistant Professor, Department of Electrical Engineering, IIT Madras, and also a visiting research fellow in the Statistical Laboratory at Cambridge University along with Mr. Tanmai Gopal, Chief Technology Officer and co-founder of Hasura. He is also an alumnus of IIT Madras from the Department of Computer Science and Engineering.

Speaking about the course, Prof. Gaurav Raina, said: “It’s a great time to be working in technology, but one really needs to have relevant skills. If you are a student, a working professional, or someone looking to work in technology, the IMAD course aims to prepare you for the rapidly changing technology sector.”

This course will help in developing skills crucial to someone wanting to develop apps and get started on their own. It is aimed at equipping one with the ingredients to get started with an idea. There is also the tangible benefit of internships at some of the top tech start-ups/companies in India.

In addition, an examination (optional) will be conducted on completion of the course and on successfully clearing it, one can obtain a certification from IIT Madras.

A few statistics about the course so far

Total number of registered students – 83,190

Number of internships offered – 430

Student Profiles:

- College Students – 64% (more than 53,000 registrations)
- Working Professionals – 15% (more than 15,000 registrations)
- Faculty and Educators – 2% (more than 1800 registrations)

Demographic distribution of students:

- 13-20 years age group – 35%
- 20-40 years age group – 58%
- 40+ years age group – 6%

Geographic distribution of students

India – 98% of all students

Outside India (20 countries) – 1500 registrations

Date: 8th July 2017

Publication: Worldhab

Edition: Online

Journalist: Santhosh Balaji

Professor: Prof. Gaurav Raina

Alumni: Tanmai Gopal

Headline: IIT Madras introduces online Mobile app development course

URL: <https://www.worldhab.com/iit-madras-introduces-online-mobile-app-development-course/>

IIT Madras introduces online Mobile app development course

Indian Institute of Technology, Madras will ready to teach that how to design Mobile Apps through an eight-week online app development course. Anybody can learn this course on free of cost through NPTEL.

IIT Madras and Hasura offering this Mobile App development as free with the help of Introduction to Modern Application Development (IMAD), they provide this as a free Massive Open Online Course (MOOC), a core technology start-up.

The course curriculum will include:

Introduction to the Internet and its common network protocols.

Build a complete web application.

Learn the how and why of modelling data for the application using databases.

Learn about performance and how to ensure security for an application.

Learn how to build your own mobile application.

Every year, India produces lakhs of engineers who aspire to enter the tech industry.

IMAD was first offered in September 2016 & subsequently in Jan 2017. It has been taken by over 83000 students! Watch the feedback videos below from students who took IMAD in September and January. The Next free online course of IMAD will begin on July 24 and registration can be done by visiting www.imad.tech.

Date: 9th July 2017

Publication: The Hindu

Edition: Online

Journalist: NA

Headline: IIT-M offers course on app design

URL: <http://www.thehindu.com/todays-paper/tp-national/tp-tamilnadu/iit-m-offers-course-on-app-design/article19238457.ece>

IIT-M offers course on app design

The Indian Institute of Technology - Madras will offer a free eight-week course on mobile application development through the National Programme on Technology Enhanced Learning (NPTEL).

The course will commence on July 24, and aims to bridge the technology skill gap in engineers. It will be offered under Introduction to Modern Application Development or IMAD, as MOOC (Massive Open Online Course) along with Hasura, a technology start-up. Candidates with basic programming skills can enrol.

IIT-M officials said 83,190 persons had registered for the course so far and had developed over 6,700 apps. Around 430 candidates who had completed the course had got internships with start-ups.

Candidates who top the course are eligible for product development internships at Hasura. Online registration is available.

Date: 9th July 2017

Publication: Observer 24/7

Edition: Online

Journalist: Ravi Kumar

Headline: Online Mobile app development course for free by IIT Madras

URL: <http://www.observer247.com/news/online-mobile-app-development-course-for-free-by-iit-madras/1925/>

Online Mobile app development course for free by IIT Madras

Indian Institute of Technology Madras which is popularly known as IIT Madras is one among the foremost institutes of national importance in higher technological education. The institution has come up with the new idea where it can share its knowledge to the entire crowd via online course. IIT madras is now active in online courses and is ready to teach that how to design Mobile Apps through an eight-week online app development course. Day by day mobile technology is improving drastically and the one who is looking to build an application for mobile can now find a platform to learn about the Mobile app development through a course which is designed by IIT Madras and the interesting part of this course is it's for free of cost through NPTEL. No matter who are eligible, everyone who are interested in learning and knowing more about the Mobile Application Development can take this course which is an eight-week online app development course.

IIT Madras and Hasura offering this Mobile App development as free with the help of Introduction to Modern Application Development (IMAD), they provide this as a free Massive Open Online Course (MOOC), a core technology start-up. As of now the registrations are opened in its official website <http://www.imad.tech/> and the course will be started from July 24th 2017. IIT madras have few advanced research centers in various disciplines of engineering and pure sciences, with nearly 100 laboratories organized in a unique pattern of functioning. A faculty of international repute, a brilliant student community, excellent technical & supporting staff and an effective administration have all contributed to the pre-eminent status of IIT Madras and it is a residential institute with nearly 460 faculty, 4500 students and 1250 administrative.

ABOUT THE COURSE:

IMAD, India's largest MOOC, is back and it's bigger and better than before. This course will cover the basics of the Internet, building a web application, databases, performance and security, and building a mobile application. In addition, the course will have an extensive set of Practical Tutorials which will help students get a feel for real-world development. IMAD offers opportunities for internships at Hasura for the course toppers, thus helping the best students hone their application development skills in the real world. Technology companies like Amazon, Flipkart, Ola, PayTM, e-commerce companies, etcetera and also start-ups, where technology platforms are used to offer services will recognize this certification.

PREREQUISITES:

Candidate need to learn the basics of computer programming. If candidate is new to programming, then the below are adequate background for this course. They can also be used to brush up your skills, if you have learnt programming a while ago then try to brush up this contents.

- 1) Fundamentals of JavaScript, the programming language of the Web
- 2) Intro to JS: Drawing & Animation

If one has certified in this course they might have more possibilities and opportunities in the outside industry to get a job where few companies that will recognize this online course

Details about CERTIFICATE:

Final score will be calculated as : 25% assignment score + 75% final exam score

25% assignment score is calculated as 25% of the sum of all 8 assignment scores.

E-certificate will be given to those who are registered and take the exam and score greater than or equal to 40% final score. Certificate will contain the details of your name, photograph and the score in the final exam with the breakup.

It will be e-verifiable at ac.in/noc with the logos of NPTEL, IIT Madras and Hasura.

The course curriculum will include:

The course content will be covered in 8 weeks. Each week of theoretical lectures will be followed by a practical, hands-on tutorial covering the concepts discussed in the previous week. These lectures will consist of programming experiments and assignments which will help the student gain a practical understanding of the ideas discussed before. The topics covered over the 8 weeks will be –

Introduction to the Internet and its common network protocols.

Build a complete web application.

Learn the how and why of modelling data for the application using databases.

Learn about performance and how to ensure security for an application.

Learn how to build your own mobile application.

Every year, India produces lakhs of engineers who aspire to enter the tech industry.

Click here for Online Mobile app development course registration

Steps for registration:

Visit the official portal <http://www.imad.tech/>

Click on Register Now

In the new opened tab click on 'JOIN' which will be in the bottom of the page

Enter the email id and fill the required details in the next page.

You'll get a welcome message with few details refer the above image.

The course is completely for free of cost but for the one to be certified they have to pay the optional fee and also the exam time and date is scheduled in prior. Certification exam will be on 24 Sep 2017 in two shifts on the same day and the one who wants to take this certification test can attend for any one of the shift timings as per their convince, Shift 1 starts and ends at 9 AM-12 Noon where Shift 2 starts and ends at 2 PM-5 PM. More details will be available when the exam registration form is published.

Date: 9th July 2017

Publication: Skill Outlook

Edition: Online

Journalist: NA

Professor: Prof. Gaurav Raina

Alumni: Mr. Tanmai Gopal

Headline: Learn to design 'Mobile Apps' from IIT Madras at zero cost! Registrations open

URL: <http://skilloutlook.com/skill/learn-design-mobile-apps-iit-madras-zero-cost-registrations-open>

Learn to design 'Mobile Apps' from IIT Madras at zero cost! Registrations open

Chennai, 07 July 2017: India produces lakhs of engineers every year who aspire to enter the tech industry. However, there's a skill gap between market needs and what students have learnt. In this difficult job environment, with massive layoffs predicted in the near future, both working professionals and college students are looking for ways to upgrade their skill sets and learn the latest technologies.

Introduction to Modern Application Development or IMAD, is a free MOOC (Massive Open Online Courses) – offered by Indian Institute of Technology, Madras and Hasura, a core technology start-up – which aims to bridge this skill gap.

IIT Madras is offering an opportunity to all those with basic programming skills to learn App development in eight weeks. The Institute will be starting the free online course IMAD from 24th July 2017.

Through this course, one can learn to develop mobile applications, popularly known as 'Apps' which have become an integral part of our everyday lives.

More than 83,000 students have registered for the course so far, making it India's largest MOOC. They have come up with more than 6,700 apps. Around 430 candidates have landed internships with start-ups. Students who successfully complete the course get a certificate from IIT Madras.

The top students from IMAD are also eligible for product development internships at Hasura. These internships give the students an opportunity to hone their app development skills in the real world and provide much needed exposure to industry.

The course will be broken into 5 modules that will be covered over 8 weeks:

- Introduction to the Internet, and its common network protocols
- Build a basic but complete web application
- Learn the how and why of modelling data for your application using databases
- Learn about performance and how to ensure security for an application
- Learn how to build your own mobile application

Registration for the course has begun and can be done by visiting www.imad.tech. The website also has resources required to learn or to brush up required programming basics.

Besides being free for everyone, anywhere, the course strives for the right balance between theory and practice by focusing on building an application quickly while also ensuring that it never breaks.

A 20-minute course video will be available online on YouTube and can be viewed anytime. One can take the course even from the comfort of their home. The course will have graded assignments, and a final test to help one remain focused through the course.

The course will be conducted by Prof. Gaurav Raina, Assistant Professor, Department of Electrical Engineering, IIT Madras, and also a visiting research fellow in the Statistical Laboratory at Cambridge University along with Mr. Tanmai Gopal, Chief Technology Officer and co-founder of Hasura. He is also an alumnus of IIT Madras from the Department of Computer Science and Engineering.

Speaking about the course, Prof. Gaurav Raina, said: "It's a great time to be working in technology, but one really needs to have relevant skills. If you are a student, a working professional, or someone looking to work in technology, the IMAD course aims to prepare you for the rapidly changing technology sector."

This course will help in developing skills crucial to someone wanting to develop apps and get started on their own. It is aimed at equipping one with the ingredients to get started with an idea. There is also the tangible benefit of internships at some of the top tech start-ups/companies in India.

In addition, an examination (optional) will be conducted on completion of the course and on successfully clearing it, one can obtain a certification from IIT Madras.

Total number of registered students till now is 83,190. The total number of internships offered is 430. More than 53,000 College Students have registered for this programme, which is 64% of total registrations. Working Professionals represent 15% (more than 15,000 registrations).

Date: 10th July 2017

Publication: DT Next

Edition: Chennai

Page no.: 4

Journalist: NA

Headline: Free app development course at IIT-M

Free app development course at IIT-M

IT Madras is organising an eight-week, free app development online course, which is open to all. Introduction to Modern Application Development or IMAD, is a free MOOC (Massive Open Online Courses) and is offered by Indian Institute of Technology, Madras and Hasura, a core technology start-up, which aims to bridge this skill gap. The institution is offering an opportunity to all those with basic programming skills to learn app development in eight weeks, starting from July 24. More than 83,000 students have registered for the course till date. Participants have come up with more than 6,700 apps. Students who successfully complete the course will get a certificate from IIT Madras. The top students from IMAD are also eligible for product development internships at Hasura.

The course will be broken into 5 modules that will be covered over eight weeks. Registration for the course has begun and can be done by visiting www.imad.tech.

Date: 10th July 2017

Publication: The Times of India- Education Times

Edition: Delhi

Page no.: 9

Journalist: NA

Headline: Summit



SUMMIT

The IIT Madras Foundation organised a summit for university alumni in Santa Clara, California, recently. Primarily, the summit was to unify the institute community in Silicon Valley and allow faculty and alumni to converse with one another, as well as with industry experts, start-up founders and other academics. Through their interactions, the institute hoped new ideas would circulate regarding solutions to impending technology issues and other opportunities related to the global tech industry. Some of the topics discussed include virtual or augmented technology, data analytics and automation.

Date: 10th July 2017

Publication: Dinamalar

Edition: Chennai

Page no.: 6

Journalist: NA

Headline: How to create 'Mobile Apps'

‘மொபைல் ஆப்’ உருவாக்க படிப்பு

சென்னை, ஜூலை 10-

‘மொபைல் போன் ஆப்’ உருவாக்கம் குறித்து, சென்னை - ஐ.ஐ.டி.,யின் இணையதள படிப்புக்கு, ஜூலை, 24ல் சேர்க்கை துவங்குகிறது.

மத்திய அரசின் திறந்த நிலை, ஆன்லைன் கல்வி திட்டத்தில், பல்வேறு படிப்புகளை, சென்னை-ஐ.ஐ.டி., நடத்துகிறது. இதில், 2016-17 முதல், ‘மொபைல் போன் ஆப்’ உருவாக்கம் குறித்த, பாடப்பிரிவு அறிமுகப்படுத்தப்பட்டது. எட்டு வாரங்கள் கொண்ட இந்த பாடப்பிரிவுக்கு, அதிக வரவேற்பு கிடைத்துள்ளது. இதுவரை, 83 ஆயிரத்து, 190 பேர் பதிவு செய்துள்ளனர். படிப்பை முடித்த, 430 பேருக்கு, ‘இன்டர்ன்ஷிப்’ என்ற, பயிற்சிக்கு, சென்னை - ஐ.ஐ.டி., அனுமதி அளித்துள்ளது.

இந்த ஆண்டுக்கான மாணவர் சேர்க்கை, ஜூலை, 24ல் துவங்குகிறது. விருப்பம் உள்ளோர், www.imad.tech என்ற இணையதளத்தில், தங்கள் விபரங்களை பதிவு செய்யலாம். எட்டு வார பயிற்சிக்கு பின், தேர்வு நடத்தப்பட்டு, சென்னை - ஐ.ஐ.டி., மூலம் சான்றிதழ் வழங்கப்படும் என, சென்னை - ஐ.ஐ.டி., அறிவித்துள்ளது.

Date: 10th July 2017

Publication: The Hindu- Tamil

Edition: Chennai

Page no.: 2

Journalist: Mr. Lisbun Kumar

Headline: IIT Madras offers free training in creating mobile apps

மொபைல் செயலிகளை உருவாக்க சென்னை ஐஐடி இலவச பயிற்சி

■ சென்னை மொபைல் செயலிகளை (ஆப்) உருவாக்குவது குறித்து சென்னை ஐஐடி ஆன்லைனில் இலவசப் பயிற்சி அளிக்கிறது.

இதுதொடர்பாக சென்னை ஐஐடி வெளியிட்டுள்ள செய்திக்குறிப்பில் கூறியிருப்பதாவது:

சென்னை ஐஐடியும், ஹகலா பவுண்டேஷனும் இணைந்து மொபைல் செயலி உருவாக்கும் பயிற்சியை ஆன்லைனில் இலவசமாக அளித்து வருகின்றன. இன்ட்ரோடக்ஷன் டு மாடர்ன் அப்ளி கேஷன் டெவலப்மென்ட் (IMAD) என்ற இந்த ஆன்லைன் பயிற்சி என்பியுள் திட்டத்தின் மூலமாக அளிக்கப்படுகிறது. 8 வார காலம்

கொண்ட இந்த பயிற்சியில் சேர எவ்வித கட்டணமும் கிடையாது. பயிற்சி முற்றிலும் இலவசம்.

இந்த ஆன்லைன் பயிற்சியில் சேருவதன் மூலம், மொபைல் செயலிகளை உருவாக்குவது எப்படி என்பதை எளிதாக அறிந்துகொள்ள முடியும். சொந்தமாக மொபைல் செயலிகளை உருவாக்கும் திறனையும் பெற முடியும்.

பயிற்சியை வெற்றிகரமாக முடிப்பவர்களுக்கு ஐஐடி சார்பில் பயிற்சி நிறைவு சான்றிதழ் வழங்கப்படும். மொபைல் செயலி துறையில் வேலைவாய்ப்பு பெற இந்த ஆன்லைன் பயிற்சி பெரிதும் உதவி கரமாக இருக்கும். இப்பயிற்சியில் இதுவரையில் 83 ஆயிரம் பேர்

சேர்ந்து பயன்டைந்துள்ளனர். அவர்கள் மூலமாக 6,700-க்கும் புதிய மொபைல் செயலிகள் உருவாக்கப்பட்டுள்ளன.

அடுத்த கட்ட ஆன்லைன் பயிற்சி ஜூலை 24-ம் தேதி தொடங்குகிறது. இந்த இலவச மொபைல் செயலி பயிற்சியில் சேர விரும்புவோர் www.imad.tech என்ற இணையத்தில் பதிவு செய்து கொள்ள வேண்டும். புரோகிராமிங் சம்பந்தப்பட்ட அடிப்படை விஷயங்களை கற்றுக்கொள்ளவும், நினைவுபடுத்திக் கொள்ளவும் தேவையான தகவல்கள் இந்த இணையத்தில் இடம்பெற்றுள்ளன. இவ்வாறு அதில் கூறப்பட்டுள்ளது.

Date: 11th July 2017

Publication: Careers 360

Edition: Online

Journalist: Harshita Das

Professor: Prof. Bhaskar Ramamurthi, Prof. R. Nagarajan, Prof. Nandan Sudarsanam, Prof. Rahul Marathe, Prof. N. Ramesh Babu, Prof. Shankar Narasimhan, Prof. Raghunathan Rengaswamy, Prof. Ashwin Mahalingam, Prof. Mahesh Panchagnula, Prof. Sankara J Subramanian, Prof. R. Krishnakumar, Prof. B. Ravindran, Prof. Mohanasankar Sivaprakasam & Prof. Sathyan Subbiah

Headline: IIT Madras Foundation holds Summer 2017 Summit in California

URL: <http://www.engineering.careers360.com/articles/iit-madras-foundation-holds-summer-2017-summit-in-california>

IIT Madras Foundation holds Summer 2017 Summit in California



IIT Madras Foundation organised the first edition of Summer 2017 Summit in California with the aim to bring together IIT Madras community, faculty, start-ups and alumni to collaborate with each other and with innovators in industry, academia, and think tanks to address problems and opportunities that could be global in nature. As many as 15 academics and seven start-up founders from IIT Madras took part along with 22 industry leaders from the Bay Area.

Some of the topics that were discussed during this summit include: Technologies that enable Industry 4.0 Capturing Data and Data Sources, Communicating data between machines and other devices/sensors/data sources, Data Analytics,

Modelling and Simulation to use this data effectively and the actual Manufacturing/Automation/Making process that is the end result.

At this meeting, the panel of IIT-Madras faculty elaborated their research in Healthcare Technology, Industrial Consultancy and Sponsored Research and the Interdisciplinary Laboratory for Data Sciences. There were six interactive panel discussions on Medicine, Artificial Intelligence and Analytics, Buildings and Infrastructure, Agriculture, Manufacturing and Energy. These panels had a blend of industry experts and venture capitalists offering their views of the innovative ideas and solutions that is attracting venture capital funding, while the IIT-Madras faculty members articulated the key research areas and problems they are trying to address.

Prof. Bhaskar Ramamurthi, Director, IIT-Madras at the event highlighted key achievements of IIT Madras. Post-event Prof. Ramamurthi said, "While the event was a grand success and we may have exceeded the expectations of many, we also learned a lot. We need to use this as a launchpad, build on this momentum and take this to the next level in the coming years."

Speaking during the programme, Prof. R. Nagarajan, Dean, International and Alumni Relations, IIT Madras, said, "While the Director (Prof. Bhaskar) and myself have been travelling abroad and meeting local alumni, this is the first time an event of such magnitude has been organized, enabling direct interaction with IIT-Madras faculty members who are active researchers in Industry 4.0"

He added, "For a first-time event, this was hugely successful and will be replicated in the future in other cities abroad where our (IIT-Madras) alumni are present in significant numbers."

Other faculty members from IIT-Madras who participated in the event were Prof. Nandan Sudarsanam, Prof. Rahul Marathe, Prof. N. Ramesh Babu, Prof. Shankar Narasimhan, Prof. Raghunathan Rengaswamy, Prof. Ashwin Mahalingam, Prof. Mahesh Panchagnula, Prof. Sankara J Subramanian, Prof. R. Krishnakumar, Prof. B. Ravindran, Prof. Mohanasankar Sivaprakasam and Prof. Sathyan Subbiah.

Date: 11th July 2017

Publication: Chennai Online

Edition: Online

Journalist: NA

Professor: Prof. Bhaskar Ramamurthi, Prof. R. Nagarajan, Prof. Krishnan Balasubramaniam, Prof. Nandan Sudarsanam, Prof. Rahul Marathe, Prof. N. Ramesh Babu, Prof. Shankar Narasimhan, Prof. Raghunathan Rengaswamy, Prof. Ashwin Mahalingam, Prof. Mahesh Panchagnula, Prof. Sankara J Subramanian, Prof. R. Krishnakumar, Prof. B. Ravindran, Prof. Mohanasankar Sivaprakasam & Prof. Sathyan Subbiah

Headline: IIT Madras Foundation holds Summer 2017 Summit in California

URL: <https://chennaionline.com/article/iit-madras-foundation-holds-summer-2017-summit-california>

IIT Madras Foundation holds Summer 2017 Summit in California

Chennai: IIT Madras Foundation organized the Foundation Series – Summer 2017 Summit at Santa Clara, California, recently. The purpose of the summit was to bring together IIT Madras community, faculty, start-ups and alumni to collaborate with each other and with innovators in industry, academia, and think tanks to address problems and opportunities that could be global in nature.

Some of the topics that were discussed during this summit include

- Technologies that enable Industry 4.0 (these could be virtual/augmented reality technologies for instance),
- Capturing Data and Data Sources (research on sensors and other devices that help capture data),
- Communicating this data between machines and other devices/sensors/data sources,
- Data Analytics, Modelling and Simulation to use this data effectively, and
- The actual Manufacturing/Automation/Making process that is the end result (this could be 3D printing, creation of new applications, tools, devices, products, robots, systems such as IOTs (Internet of Things)).

This was first such event organized by IIT Madras Foundation. Fifteen academics and seven start-up founders from IIT Madras took part along with 22 industry leaders from the Bay Area.

Addressing the event, Prof. Bhaskar Ramamurthi, Director, IIT-Madras, highlighted key achievements of IIT Madras:

- IIT-Madras was ranked the best engineering institute in India by National Institute Ranking Framework (NIRF), two years in a row
- IIT-Madras earned the highest revenues through consultancy projects for any engineering institute
- Four out of five start-ups at the Economic Times National Start-up contest came from IIT-Madras Incubation Centre
- IIT-Madras ranks among the top research groups in the world
- The Healthcare incubator, Healthcare Technology Innovation Centre, at IIT-Madras is the premier incubator of its kind in India

Post-event, Prof. Bhaskar Ramamurthi said “While the event was a grand success and we may have exceeded the expectations of many, we also learned a lot. We need to use this as a launchpad, build on this momentum, and take this to the next level in the coming years.”

Speaking during the programme, Prof. R. Nagarajan, Dean, International and Alumni Relations, IIT Madras, said, “While the Director (Prof. Bhaskar) and myself have been travelling abroad and meeting local alumni, this is the first time an event of such magnitude has been organized, enabling direct interaction with IIT-Madras faculty members who are active researchers in Industry 4.0”

“For a first-time event, this was hugely successful and will be replicated in the future in other cities abroad where our (IIT-Madras) alumni are present in significant numbers.”

Prof. Krishnan Balasubramaniam, Dean, Industrial Consultancy and Sponsored Research, IIT-Madras spoke about the various collaborations with the industry undertaken by the institute.

At this meeting, the panel of IIT-Madras faculty elaborated their research in Healthcare Technology, Industrial Consultancy and Sponsored Research and the Interdisciplinary Laboratory for Data Sciences.

This was followed by six interactive panel discussions on Medicine, Artificial Intelligence and Analytics, Buildings and Infrastructure, Agriculture, Manufacturing and Energy. These panels had a blend of industry experts and Venture Capitalists offering their view of the innovative ideas and solutions that is attracting venture capital funding, while the IIT-Madras faculty members articulated the key research areas and problems they are trying to address.

Other faculty members from IIT-Madras who participated in the event include Prof. Nandan Sudarsanam, Prof. Rahul Marathe, Prof. N. Ramesh Babu, Prof. Shankar Narasimhan, Prof. Raghunathan Rengaswamy, Prof. Ashwin Mahalingam, Prof. Mahesh Panchagnula, Prof. Sankara J Subramanian, Prof. R. Krishnakumar, Prof. B. Ravindran, Prof. Mohanasankar Sivaprakasam and Prof. Sathyan Subbiah.

Date: 11th July 2017

Publication: Dina Vanigam

Edition: Chennai

Page no.: 5

Journalist: NA

Headline: IIT Madras offers free training in creating mobile apps

மொபைல் செயலிகளை உருவாக்க சென்னை ஐஐடி இலவச பயிற்சி

சென்னை, ஜூலை 10

மொபைல் செயலிகளை (ஆப்) உருவாக்குவது குறித்து சென்னை ஐஐடி ஆன்லைனில் இலவசப் பயிற்சி அளிக்கிறது.

இது தொடர்பாக சென்னை ஐஐடி வெளியிட்டுள்ள செய்திக்குறிப்பில் கூறியிருப்பதாவது:

சென்னை ஐஐடியும், ஹைகலர் பவுண்டேனும் இணைந்து மொபைல் செயலி உருவாக்கும் பயிற்சியை ஆன்லைனில் இலவசமாக அளித்து வருகின்றன. இன்ட்ரொடக்சன் டு மாடர்ன் அப்ளிகேசன்

டெவலப்மென்ட் என்ற இந்த ஆன்லைன் பயிற்சி என்பிடிஎஸ் திட்டத்தின் மூலமாக அளிக்கப்படுகிறது. 8 வார காலம் கொண்ட இந்த பயிற்சியில் சேர எவ்வித கட்டணமும் கிடையாது.



பயிற்சி முற்றிலும் இலவசம்.

இந்த ஆன்லைன் பயிற்சியில் சேருவதன் மூலம், மொபைல் செயலிகளை உருவாக்குவது எப்படி என்பதை எளிதாக அறிந்துகொள்ள முடியும். சொந்தமாக மொபைல் செயலிகளை உருவாக்கும் திறனையும் பெற முடியும்.

பயிற்சியை வெற்றி கரமாக முடிப்பவர் களுக்கு ஐஐடி சார்பில் பயிற்சி நிறைவு சான்றி

தழ் வழங்கப்படும். மொபைல் செயலி துறையில் வேலைவாய்ப்பு பெற இந்த ஆன்லைன் பயிற்சி பெரிதும் உதவி கரமாக இருக்கும். இப் பயிற்சியில் இதுவரை 83 ஆயிரம் பேர் சேர்ந்து பயனடைந்துள்ளனர். அவர்கள் மூலமாக 6,700க்கும் புதிய மொபைல் செயலிகள் உருவாக்கப்பட்டுள்ளன.

அடுத்த கட்ட ஆன்லைன் பயிற்சி ஜூலை 24ம் தேதி தொடங்குகிறது. இந்த இலவச மொபைல் செயலி பயிற்சியில் சேர விரும்புபவார் www.imad.tech என்ற இணையத்தில் பதிவு செய்து கொள்ள வேண்டும். புரோகிராமிங் சம்பந்தப்பட்ட அடிப்படை வியங்களை கற்றுக்கொள்ளவும், நினைவுபடுத்திக்கொள்ளவும் தேவையான தகவல்கள் இந்த இணையத்தில் இடம்பெற்றுள்ளன. இவ்வாறு அதில் கூறப்பட்டுள்ளது.



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Page no: 6

Journalist: Lavanya Narayanan

Headline: Out of the classroom

URL: <http://www.thehindu.com/sci-tech/technology/internet/imad-course-hasura-and-iit-m/article1927>

Out of the classroom

IMAD brings IIT Madras' app development course to people around the globe

■ LAVANYA NARAYANAN

IIT Madras has a reputation that has stood the test of time for over 50 years. Admission remains coveted and often unattainable. But now, thanks to the digital age, the institutes' bank of Massive Open Online Courses (MOOC) give the public a glimpse of what they have to offer.

"We're trying to bring down the entry barriers," says Rajoshti Ghosh, co-founder of technological platform Hasura, which partners with IIT Madras for the venture. With their free course, Introduction to Modern Application Development (IMAD), the duo is sharing their skill sets with participants across the globe.

The course is a traditional MOOC, one of the many that make up IIT Madras' online database. And yet its reach has been exceptional. Launched last September, the course has had over 80,000 registrations and the numbers are only expected to grow.

"It's truly the first-of-its kind. Participants build their own apps from scratch, which is quite rare to find in a short online course such as this one," Ghosh tells us. Using weekly lectures and an active online discussion forum that links participants from across the world (to learn from each other), it teaches students the fundamentals of application development in both a theoretical and practical setting. The eight-week course also covers aspects of databases, performance and security.

Ghosh partially attributes the response to the course to the recent slump in the IT sector, both locally and abroad.



Get with it In today's IT industry, it is essential to be versatile. • GETTY IMAGES

"The IT field requires people to be dynamic and multifunctional as workers. You need to be a polyglot of sorts, comfortable switching from one framework to another," she adds. To be continuously relevant, one has to have a versatile repertoire.

It's truly the first-of-its kind. Participants build their own apps from scratch, which is quite rare to find in a short online course such as this one

With participants ranging from ages 13 to 74, college students, IT professionals, faculty educators, and even stay-at-home mothers are joining the database of registrants, pushing enrolment to over 1,00,000 for the course's upcoming version.

Not everyone has their eye on the IIT stamp, though. As the course comes to completion, a generic certification exam is offered. Those who desire the IIT degree will need to pay ₹1,000 to sit for the exam offered by the institute itself.

The toppers get to do a product development fellowship with Hasura, where they build products of their choice via a remote mentorship programme that takes them through the entire product development lifecycle. Ghosh says,

"We currently have 400 interns working with us to create some amazing applications. We want to build a community of people, and equip them with this knowledge, regardless of profession or background. After all, they're the future developers of the world."

The third edition of the course begins on July 24. Sign up at onlinecourses.nptel.ac.in.

Date: 17th July 2017

Publication: Deccan Chronicle- Chennai Chronicle

Edition: Chennai

Page no.: 21

Journalist: Priyanka Shankar

Professor: Prof. Gaurav Raina

Alumni/student: Tanmai (alumnus) & Ammu (student)

Headline: Creating apps made easy

URL: <http://www.deccanchronicle.com/technology/in-other-news/170717/creating-apps-made-easy.html>

CREATING APPS MADE EASY

Building an app is not so tough anymore with Hasura — a free course that simplifies app creation

PRIYANKA SHANKAR
DECCAN CHRONICLE

Brainchild of two techies, Rajesh Ghosh and Tanmai Hasura is an online course that aids in creating apps. With fun features like video lectures, hands-on experience with creating a new app and community collaborations, Hasura aims to create a revolution by helping people go digital.

Founded in September last year, the online course is for a duration of eight weeks and is free of cost. Revealing that the course has about 1,00,000 students across the globe, the co-founder of Hasura, Rajesh Ghosh, says, "Majority of the applicants are students and IT professionals. But we also have many retired officers, home makers and young school children applying for the course. The youngest applicant is 13 and the oldest is 74 years old! You can learn alone or team up with friends. There are no age limits, no regional constraints, since it is online, you can even learn after your studies or work is done."

Having partnered with IIT Madras for a free course named IMAD (Introduction to Modern Application Development), Rajesh adds, "Professor Gaurav from IIT(M) is helping us. At the end of the course, you will also receive a certificate from IIT." The platform also provides an experience to growing techies and students to intern there. The company has about 400 interns working currently. At the end of the course, the applicants are selected based on their performance, for fellowship pro-

Tanmai and Rajesh Ghosh

Building an app is not a daunting task. We want to build a community that has the excitement of creating something new and is not afraid of trying it out

— RAJESH GHOSH, CO-FOUNDER, HASURA

web, mobile or hybrid applications," shares Rajesh.

When asked about how Hasura helps the interns, Ammu, a student of IIT(M) shares, "I worked in the marketing section and I learnt a lot about the processes of going digital. I was allowed to get creative too as I helped with designing a lot. The course resulted in a lot of home makers who want to do something new and want to put their talents into use. The feedback from the young crowd has also been great."

Talking about their plans, Rajesh states, "We have a back end development course coming up because it was much in demand and a fellowship to aid the step by step processes and offer support for applicants who perform exceedingly well." He concludes by saying, "We want to build a community that has the excitement of creating something new and is not afraid of trying it out."

Date: 20th July 2017

Publication: Edex Live

Edition: Online

Journalist: NA

Professor: Prof. Sandipan Bandyopadhyay

Headline: IIT-Madras launches second phase of 'Carbon Zero Challenge' to identify innovative solutions to India's energy problems

URL: <http://www.edexlive.com/live-story/2017/jul/19/iit-madras-launches-second-phase-of-carbon-zero-challenge-to-identify-innovative-solutions-to-india-855.html>

IIT-Madras launches second phase of 'Carbon Zero Challenge' to identify innovative solutions to India's energy problems

The second phase of the 'Carbon Zero Challenge' was recently launched at Indian Institute of Technology Madras. Personalities from academia, venture capitalists and entrepreneurs took part in the event.

The Carbon Zero Challenge is a pioneering initiative by the IIT-Madras and Industrial Waste Management Association (IWMA), in collaboration with the US Consulate General Chennai, Polaris - A Virtusa Company, Shaastra 2018 and Energy Alternatives India (EAI), to identify innovative and indigenous solutions to India's unique energy problems.

The main objective of this initiative is to recognise and nurture original solutions and enable them to reach a stage of market scalability. Through their efforts, the partners aspire to foster a sustainable ecosystem wherein renewable energy and clean technology ideas can emerge and develop into long-term solutions.

The name 'Carbon Zero' signifies our collective humanitarian goal of reducing dependence on Carbon-based fossil fuels and minimising Greenhouse Gas Emissions. This attempt to seek out innovative low-carbon energy solutions is a small step towards achieving this grand objective.

The challenge has invited students and early stage entrepreneurs from Tamil Nadu, Kerala, Karnataka, Puducherry and the Andaman and Nicobar Islands, to isolate problems in five thematic areas and develop solutions to the same. The areas chosen are Agriculture, Urban Areas/Cities, Transportation, Industrial Processes and Water and Waste Management.

"A successful prototype is developed after multiple prototyping processes and the former can be achieved if the conflict between engineering and design parameters are addressed." Prof Sandipan Bandyopadhyay, Assistant Professor, IIT Madras

In Phase One, over 530 teams had submitted a proof-of-concept solution in the form of a video or presentation along with a 2-page abstract, out of which 57 belonged to agriculture, 149 to industries, 73 to transportation, 125 to urban areas/cities and 126 to water and waste management.

The top 26 teams were shortlisted for the Phase II during which they will be receiving up to Rs 5 lakhs each for building prototypes. They will also be paired with mentors from India and the US, who will guide

and motivate them in building a prototype of their idea over a period of 6 months and will also help them prepare a business model. The challenge will culminate in a 'Demo Day', which will see attendance by experts from industry and academia. The best solutions will receive prizes in cash and kind, and all the teams will be provided with opportunities to interact with investors and researchers to further develop their ideas.

Date: 20th July 2017

Publication: The Times of India

Edition: Online

Journalist: Ranjani Ayyar

Headline: Learn app development with this free IMAD course

URL: <http://timesofindia.indiatimes.com/home/education/news/learn-app-development-with-this-free-imad-course/articleshow/59668124.cms>

Learn app development with this free IMAD course

CHENNAI: Students across the country can learn app development through a free course offered jointly by Hasura and IIT-Madras. Post the eight-week course, top students get a chance to do internships at Hasura.

India produces lakhs of engineers every year, who aspire to enter the tech industry. However, there's a skill gap between market needs and what students have learnt.

Industry experts predict that automation will cause significant job cuts in the IT sector. However, the demand for mid-to-high skilled jobs in the IT sector will grow.

In this difficult job environment, with massive layoffs predicted in the near future, both working professionals and college students are looking for ways to upgrade their skill sets and learn the latest technologies.

Introduction to Modern Application Development or IMAD, is a free MOOC offered by Hasura and IIT-Madras, which aims at bridging this skill gap.

More than 83,000 students have registered for the course so far, making it India's largest technology MOOC.

Students who successfully complete the course get a certificate from IIT-Madras. As many as 430 students have got internships at tech startups after completing the course.

The next course begins on July 24.

Date: 20th July 2017

Publication: The Economic Times

Edition: Delhi/Mumbai/Kolkata/Hyderabad/Chennai

Page no.: 6

Journalist: NA

Headline: Rolling out the Red Carpet

Rolling out the RED CARPET

On Wednesday, we showcased the five shortlisted entrants in the Bootstrap Champ & Top Innovator categories for **The Economic Times Startup Awards 2017**. We bring you two more sets of high achievers today.

BEST ON CAMPUS

Project Mudra

Founded: 2012
Founders: Sanjari Daswani (CEO), Anshu Srivastava, Dipa Banerjee, Shubh Tait
Based: Bengaluru
Key investors: N/A
What it does: Makes learning Braille easier by using a mobile app that acts as an interface between the user and Braille hardware using speech recognition.

DeDetect Technologies

Founded: 2016
Founders: Ganesh Gauri
Based: Chennai
Key investors: Reliance Industries
What it does: Develops detection technology for the energy sector. Its ultrasonic sensor is used for inspection of oil and gas pipelines through remote monitoring.

HyperVerge

Founded: 2014
Founders: Rishi Kulkarni (CEO), Vignesh Krishnakumar, Saketha Anand Kumar, Praveen Kumar
Based: Bengaluru
Key investors: New Enterprise Associates, Millers Ventures, Naya Ventures
What it does: Focused on integrating its image recognition technology for enterprises in the cashless economy, security cameras & banking, financial services & insurance sectors.

Maximi Labs

Founded: 2016
Founders: Pankaj Prasad (CEO), Smit Dha, Manish Arora
Based: Chennai
Key investors: Loan from IIT Madras Incubation Cell
What it does: Provides hardware and software that help large industry sectors such as oil and gas and steel manage their complex processes, reduce downtime and increase efficiencies.

Planys Technologies

Founded: 2015
Founders: Tenzin Phuntshewa (CEO), Vivek Maniappa, Rajesh S Khanna
Based: Chennai
Key investors: IIT Madras Incubation Cell
What it does: Provides underwater inspection and survey services using remotely operated vehicles. Its technology spans marine robotics, advanced non-destructive testing and post-inspection analysis tools.

COMEBACK KID

Shivakumar Ganesan

Current venture: Exalt
Founded: 2011
Based: Bengaluru
Key investors: Blume Ventures, Mumbai Angels
What it does: Provides cloud telephony services such as virtual phone numbers and applications for small and medium enterprises.
Previous venture: illoppi

Thirukumar Nagarajan

Current venture: Naukarta
Founded: 2015
Based: Bengaluru
Key investors: Decent Partners, Nandan Mookherjee, Quikr Ventures, Indoforce
What it does: Offers farmers assured prices, free logistics, and demand-based harvesting while increasing margins for retailers.
Previous venture: Stribit, EduSoft, Accurate Kirigyan

Ashutosh Valani (left) & Priyank Shah

Current venture: Joranda
Founded: 2012
Based: Ahmedabad
Key investors: Marico, Janta India Ventures
What it does: A first-of-its-kind online-offline grooming brand for men.
Previous venture: Audioton.com

Amarendra Sahu, Jitendra Jagadev, Smriti Pandey

Current venture: NestAway
Founded: 2015
Based: Bengaluru
Key investors: Tiger Global, Yuhua Micro, KOL Ventures, Ratan Tata
What it does: Converts unfurnished houses into fully furnished and managed apartments for rent.
Previous venture: BuzzTV, Seed

Gaurav Singh Kushwaha

Current venture: MarStone
Founded: 2011
Based: Bengaluru
Key investors: IFL, IFL Investments, Rabeni Capital, FirstCap, Accel Partners, Ratan Tata
What it does: The online jewellery retailer has launched multiple initiatives, including certification for jewellery bought on the site and allowing buyers to try their designs at home before deciding what to buy.
Previous venture: Chaiyak

What I Look for in a Winner

In the runup to the ET Startup Awards 2017 jury meeting on July 22, your favourite newspaper will bring you what the jury members expect in a winner. Today, Accel India's Prachanth Pralath and Amazon India's Amit Agarwal share their views.

PRACHANTH PRAKASH
PARTNER, ACCEL INDIA
It is important to see if an entrepreneur is inclined towards a particular type of business and how sincere the individual is. It is also essential for the founding team to complement each other. Founders being humble is important too. Businesses in India take time to mature. There will be a lot of changes, including dynamics in competition, scaling. All through this, the ability to learn and quickly experiment should be there in a founder.

AMIT AGARWAL
COUNTRY MANAGER, AMAZON INDIA
I will be keen to understand how obsessed and relentless the entrepreneurs and the startups are in serving their customers, how they are willing to fail and think long-term as they invest on behalf of their customers. The ability to create meaningful customer impact will be key as I evaluate the nominees.

Date: 21st July 2017

Publication: Web 123

Edition: Online

Journalist: NA

Headline: IIT-Madras launches 2nd phase of 'Carbon Zero Challenge'

URL: <https://news.webindia123.com/news/articles/india/20170720/3150709.html>

IIT-Madras launches 2nd phase of 'Carbon Zero Challenge'

The second phase of the 'Carbon Zero Challenge' was launched at the IIT-Madras here today. Personalities from academia, venture capitalists and entrepreneurs took part in the 'Carbon Zero Challenge', which was a pioneering initiative by IIT-M and Industrial Waste Management Association (IWMA), in collaboration with the US Consulate General in Chennai, Polaris, Shaastra-2018 and Energy Alternatives India (EAI), to identify innovative and indigenous solutions to India's unique energy problems. The main objective of this initiative was to recognize and nurture original solutions and enable them to reach a stage of market scalability, a release from IIT-M said. "Through their efforts, the partners aspire to foster a sustainable ecosystem wherein renewable energy and clean technology ideas can emerge and develop into long-term solutions", it added. "The name 'Carbon Zero' signifies our collective humanitarian goal of reducing dependence on Carbon-based fossil fuels, and minimizing Greenhouse Gas Emissions", the release said, adding, this attempt to seek out innovative low-carbon energy solutions was a small step towards achieving this grand objective. MORE UNI GV 1307

Date: 21st July 2017

Publication: UNI

Edition: Online

Journalist: NA

Headline: IIT-Madras launches 2nd phase of 'Carbon Zero Challenge'

URL:<http://www.uniindia.com/iitmadraslunches2ndphaseofcarbonzerochallenge/states/news/935592.html#9TOKeDtFPbdMC2ym.99>

IIT-Madras launches 2nd phase of 'Carbon Zero Challenge'

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Date: 22nd July 2017

Publication: India Education Diary

Edition: Online

Journalist: NA

Professor: Prof. Sandipan Bandyopadhyay, Prof. R. Nagarajan, Prof. Indumathi MNambi & Mr K Sivaraman

Alumni: Mr. Swostik Dash & Mr. Pulkit Agarwal

Headline: IIT-Madras Launches Second Phase of 'Carbon Zero Challenge'

URL: <http://indiaeducationdiary.in/iit-madras-launches-second-phase-carbon-zero-challenge/>

IIT-Madras Launches Second Phase of 'Carbon Zero Challenge'

Chennai: The Second Phase of the 'Carbon Zero Challenge' was launched at Indian Institute of Technology Madras on Wednesday (19th July 2017). Personalities from academia, venture capitalists and entrepreneurs took part in the event.

The Carbon Zero Challenge is a pioneering initiative by the IIT-Madras and Industrial Waste Management Association (IWMA), in collaboration with the U.S. Consulate General Chennai, Polaris – A Virtusa Company, Shaastra 2018 and Energy Alternatives India (EAI), to identify innovative and indigenous solutions to India's unique energy problems.

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The challenge has invited students and early stage entrepreneurs from Tamil Nadu, Kerala, Karnataka, Puducherry and the Andaman and Nicobar Islands, to isolate problems in five thematic areas and develop solutions to the same. The areas chosen are Agriculture, Urban Areas/Cities, Transportation, Industrial Processes and Water and Waste Management.

In Phase One, over 530 teams had submitted a proof-of-concept solution in the form of a video or presentation along with a 2-page abstract, out of which 57 belonged to Agriculture, 149 to Industries, 73 to Transportation, 125 to Urban Areas/Cities and 126 to Water & Waste Management.

The top 26 teams were shortlisted for the Phase II during which they will be receiving upto Rs. 5 lakhs each for building prototypes. They will also be paired with mentors from India and the US, who will guide and motivate them in building a prototype of their idea over a period of 6 months and will also help them prepare a business model. The challenge will culminate in a 'Demo Day', which will see attendance by experts from industry and academia. The best solutions will receive prizes in cash and kind, and all the teams will be provided with opportunities to interact with investors and researchers to further develop their ideas. For more info, visit <http://www.czeroc.com>

Prof. Sandipan Bandyopadhyay, Assistant Professor, Department of Engineering Design, IIT Madras, delivered a lecture on the topic "Paper to Prototype". He familiarised the audience with prototyping

process through examples of prototypes and products which he has developed during past years in IIT Madras. “A successful prototype is developed after multiple prototyping processes and the former can be achieved if the conflict between engineering and design parameters are addressed”, he added.

Following his talk, there was an interaction with two IITM alumni, Mr. Swostik Dash who is project officer in R2D2 Laboratory, IIT Madras which involves in research of human movement and prosthetic devices and Mr. Pulkit Agarwal who is a part of start-up called ‘Planys Technologies’ which provides submersible robotic inspection and survey solutions using Remotely Operated Vehicles.

Following that, was the workshop on “Idea 2 Market: An Entrepreneur’s Toolbox” by Dr. Hiran Vedam from nH2. She gave many insights about entrepreneurship to the participants and idea to convert a prototype into a business model which was followed by a Q&A session.

The participants explained about their ideas through “Elevators Pitch” to the venture capitalists and entrepreneurs in a session organized to create funding opportunities. They presented posters to the potential investors. Dr. Murali Padmanabhan from Virtusa Corporation and Mr. Mukundan Narasimhan, CEO PlaySolar Systems also spoke during the occasion.

Prof. R. Nagarajan, Dean, International and Alumni Relations, IIT Madras and Coordinators of CZC Prof. Indumathi M Nambi, Associate Professor, Department of Civil Engineering, IIT Madras, and Mr K Sivaraman from IWMA also addressed the audience.

Date: 22nd July 2017

Publication: HT Syndication

Edition: Online

Journalist: NA

Headline: 'IIT-Madras Launches Second Phase of 'Carbon Zero Challenge'

URL: <http://www.htsyndication.com/htsportal/india-education-diary/article/-iit-madras-launches-second-phase-of-carbon-zero-challenge-/21924228>

'IIT-Madras Launches Second Phase of 'Carbon Zero Challenge'

Chennai, July 21 -- The Second Phase of the 'Carbon Zero Challenge' was launched at Indian Institute of Technology Madras on Wednesday (19th July 2017). Personalities from academia, venture capitalists and entrepreneurs took part in the event.

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The main objective of this initiative is to recognize and nurture original solutions and enable them to reach a stage of market scalability. Through their effort...

Date: 22nd July 2017

Publication: Your Story

Edition: Online

Journalist: Dpiti Nair

Alumni: Daniel Raj

Headline: IIT-M incubated Detect Technologies' drone-as-a-service saves heavy industries from huge losses

URL: <https://yourstory.com/2017/07/iit-m-detect-technologies-drone-as-a-service/>

IIT-M incubated Detect Technologies' drone-as-a-service saves heavy industries from huge losses

This bunch of engineers, who have just graduated from IIT Madras, are setting their sights on a niche sector. Twenty-two-year-old Daniel Raj, who is the Founder and CEO of Detect Technologies, along with a 40-member team of hardcore techies, is building an innovative solution for heavy industries, especially the oil and natural gas industry.

Their artificial intelligence (AI) and machine learning startup is a drone-as-a-service company focussed on helping manufacturing industries ensure asset integrity and proactive monitoring, thereby ensuring that they cut huge losses of around Rs 6-9 crore (daily) by way of shutdowns.

Incubated at IIT Madras, the team spent five years in research and development to come out with two market-ready products as of now. The first is a sensor (with a patent technology) to detect any leakage in the oil and gas pipeline, while the other is an industrial drone (with proprietary algorithms) that inspects and assesses large volume assets like boilers and stacks. They also have the ability to generate a report on the same day.

The team had raised a seed round from IIT Madras and are in the process of closing a pre-Series A round soon.

"We are already making revenues with our drone technology," says Daniel. Narrating his experience of pitching to potential clients, he says that has been one of their biggest challenges. "I had to grow a beard so that I could appear older," he says smiling.

However, the team has successfully signed a deal with Reliance Industries following which it has become easier to approach others in the industry.

Daniel says that getting access to mentors in the field is also difficult, but the fact that they were incubated at Axilor helped them get connected to "some good people in this field."

Besides the Indian market, the team is aiming to go international. "More than India, for us the bigger market is in the Middle East and Southeast Asia," says Daniel.

Considering they have just graduated, Daniel says, "We are slowly realising the realities of life as an entrepreneur. The real world is far from a life in a lab."

Nonetheless, the young entrepreneur is raring to go and believes that with the enthusiasm and high energy of the team they can ride high.

Watch Daniel talk about his product and the problem they are solving with their patented technologies in the video below.



Date: 25th July 2017

Publication: The Hindu

Edition: Online

Journalist: NA

Headline: IMAD course to begin today

URL: <http://www.thehindu.com/todays-paper/tp-national/tp-kerala/imad-course-to-begin-today/article19340261.ece>

IMAD course to begin today

The third session of Introduction to Modern Application Development (IMAD), a massive open online course affiliated to the Indian Institute of Technology, will begin on Monday.

The free course helps working professionals and students catch up with the latest in technology development.

Developed by Hasura, a core-tech start-up, in partnership with IIT Madras, the eight-week course blends theory and practice to convey the principles of building web applications.

Features

The course features video lectures, an app development portal for students to build web applications as they learn concepts, and a discussion forum for peer-to-peer learning.

Applicants for the next intake can register at https://onlinecourses.nptel.ac.in/noc17_cs40/preview

Details are available on <http://www.imad.tech>

Date: 29th July 2017

Publication: Dinamani

Edition: Chennai

Page no.: 2

Journalist: N/A

Headline: IIT to train women entrepreneurs

URL: <https://goo.gl/uaaiVj>

பெண் தொழில்முனைவோருக்கு ஐஐடி சார்பில் பயிற்சி

சென்னை, ஜூலை 28: தமிழகத்தில் உள்ள 300 சிறு, குறு பெண் தொழில்முனைவோருக்குப் பயிற்சியளிக்கும் வகையில் புதிய திட்டத்தை சென்னை ஐஐடி அறிமுகம் செய்துள்ளது.

இதுகுறித்து சென்னை ஐஐடி வெளியிட்ட செய்தி:

சென்னை ஐஐடி 'ஹேண்ட்-இன்-ஹேண்ட் இந்தியா' தொண்டு நிறுவனம் மற்றும் சி.ஏ.எம்.எஸ். குழுமம் ஆகியவற்றுடன் இணைந்து தமிழகத்தில் உள்ள 300 சிறு, குறு பெண் தொழில்முனைவோருக்கு பயிற்சி அளிக்கும் திட்டத்தை

வெள்ளிக்கிழமை அறிமுகம் செய்தது.

இதில் தமிழில் பயிற்சி அளிக்கப்படுகிறது. ஆண்டுக்கு 100 பேர் வீதம் மூன்று ஆண்டுகளுக்கு இந்தப் பயிற்சி நடத்தப்பட உள்ளது. ஒவ்வொரு பயிற்சியும் ஒரு வாரம் பயிற்றுவிக்கப்படும், பயிற்சியில் பங்குபெற்றவர்கள் தங்கள் தொழிலுக்கான திட்டத்தை உருவாக்குவதற்கு வழிகாட்டிகள் உதவி செய்வர். அதன் பின் பங்கேற்பாளர்கள் தங்கள் தொழில்களை விரிவாக்கம் செய்து வளர்ச்சி காண்பதற்கும், நிதி உதவிகள் பெறுவதற்கும் வழிகாட்டப்படும்.

Date: 29th July 2017
Publication: The Hindu
Edition: Chennai
Page no.: 3
Journalist: NA

Headline: IIT-M to train women entrepreneurs

URL: <http://www.thehindu.com/todays-paper/tp-national/tp-tamilnadu/iit-m-to-train-women-entrepreneurs/article19382326.ece>

IIT-M to train women entrepreneurs

SPECIAL CORRESPONDENT
CHENNAI

The Indian Institute of Technology-Madras, along with CAMS Group, will train 300 micro and marginal women entrepreneurs in the State.

The initiative follows the success of IIT-M's pilot project last year, in which about half the participants who completed the programme received bank loans to launch their own ventures.

The current programme, to be conducted in Tamil, is a three-year project that will

be funded by CAMS Group. Hand-in-Hand India, a charitable trust, will identify the beneficiaries and IIT-M will finalise the list. The training would be conducted in the entrepreneurs' localities.

The entrepreneurs would be trained in different areas of business and management to improve their growth rate and profitability, according to a release.

Interested participants may contact rhillair@iitm.ac.in for further details.

Date: 29th July 2017

Publication: The Hans India

Edition: Hyderabad

Page no.: 14

Journalist: NA

Faculty: Prof R. Nagarajan & Prof. Thillai Rajan

Headline: IIT-M to train women entrepreneurs

URL: <http://www.thehansindia.com/posts/index/Hans/2017-07-28/IIT-M-to-train-women-entrepreneurs-/315327>



L to R: G Manikandan, CAMS Pvt Ltd, Prof. Thillai Rajan, Dept of Management Studies, IIT Madras, M. Subramanian, CEO, Development Office, IIT Madras & Prof. R. Nagarajan, Dean, I&AR, IIT Madras.

IIT-M to train women entrepreneurs

OUR BUREAU

Hyderabad: Indian Institute of Technology Madras launched a new initiative to train 300 micro and marginal women entrepreneurs in Tamil Nadu. The Institute has joined hands with CAMS Group, which is providing a funding support of about Rs. 45 lakh, and Hand-in-Hand India, a charitable trust, for this three-year project.

The program aims to provide high impact training to the women entrepreneurs by providing key inputs in different areas of business and management. This will help participants to improve their growth rates and profitability.

Speaking during the launch of the initiative, Prof Nagarajan, Dean, Industry and Alumni Relations, IIT-Madras, said, "IIT Madras has established itself as a leader among academic institutions in promoting entrepreneurship among its faculty and students, with alumni being a solid pillar of support. In particular, social entrepreneurship is a key imperative of the Institute, and corporate support in the form of CSR has come as a tremendous boost in this respect."

Speaking about this program, Prof. Thillai Rajan, Department of Management Studies, IIT-Madras, and one of the Program Directors, said, "This initiative is a result of the spectacular success of an earlier pilot program done in January 2016. About half of the participants in that pilot program successfully obtained bank loans within six months of completing the program."

Date: 29th July 2017

Publication: India Education Diary

Edition: Online

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Faculty: Prof R. Nagarajan & Prof. Thillai Rajan

Headline: IIT Madras to train 300 Micro and Marginal Women Entrepreneurs in Tamil Nadu

URL: <https://indiaeducationdiary.in/iit-madras-train-300-micro-marginal-women-entrepreneurs-tamil-nadu/>

IIT Madras to train 300 Micro and Marginal Women Entrepreneurs in Tamil Nadu



Chennai: Indian Institute of Technology Madras launched a new initiative on Friday, 28th July 2017, to train 300 micro and marginal women entrepreneurs in Tamil Nadu. The Institute has joined hands with CAMS Group, which is providing a funding support of about Rs. 45 lakh, and Hand-in-Hand India, a charitable trust, for this three-year project.

The program aims to provide high impact training to the women entrepreneurs by providing key inputs in different areas of business and management. This will help participants to improve their growth rates and profitability.

In order to be effective and meet the needs of the participants, the program will be conducted in Tamil language. The beneficiaries will be identified by Hand-in-Hand India and finalized by IIT Madras and the training will be conducted in entrepreneurs' localities.

Speaking during the launch of the initiative, Prof. Nagarajan, Dean, Industry and Alumni Relations, IIT-Madras, said, "IIT Madras has established itself as a leader among academic institutions in promoting entrepreneurship among its faculty and students, with alumni being a solid pillar of support. In particular, social entrepreneurship is a key imperative of the Institute, and corporate support in the form of CSR has come as a tremendous boost in this respect."

Speaking about this program, Prof. Thillai Rajan, Department of Management Studies, IIT-Madras, and one of the Program Directors, said, "This initiative is a result of the spectacular success of an earlier pilot program done in January 2016. About half of the participants in that pilot program successfully obtained bank loans within six months of completing the program."

Participants began to organize and run their business in a more systematic manner after the program, which provided comfort to banks in their lending decisions.

The program is specifically designed for the needs for women entrepreneurs and will provide insights on various areas such as finance, marketing, information technology, banking, and soft skills. The program would be delivered by faculty members from the Department of Management Studies, IIT Madras and experienced practitioners from the industry.

Each year 100 people would be trained for three years. Each program would be for a week, which would be followed by a reflective session after six months to understand how the program has impacted the participants.

Speaking about this project, N K Prasad, President and Chief Executive officer, CAMS, said, "CAMS as part of its CSR activities has been carrying out various projects in the fields of education, vocational training, healthcare and other social Welfare activities. In the current financial year, CAMS is delighted to be associated with IIT-Madras in supporting the training focused at small scale Entrepreneurs. We are sure that the proposed training which include workshops, mentoring and monitoring sessions to be carried out by eminent faculties associated with IIT Madras would go a long way in the entrepreneurs scaling up their operations."

A key feature of the program is the mentoring support to the participants after the completion of the program. The mentors would guide the participants in developing a business plan, and Hand in hand would facilitate in the process of obtaining financial support for entrepreneurs developing the best business plans.

Prof. Thillai Rajan, said, "A major thrust of this program is to enable the participants assume the mind-set of an entrepreneur rather than the mind-set of being self-employed. An important problem faced by a majority of micro and marginal entrepreneurs who start and run micro enterprises is the lack of formal training in running a business. The problem is even more acute for women entrepreneurs. While most of them have some degree of domain experience in the areas in which they operate, business skills and knowledge are mostly self-learned. Through this program, it is our desire to make modern management insights and knowledge easily accessible to these marginal entrepreneurs."

Dr. Kalpana Sankar, Chairperson and Managing Trustee, Hand in Hand, said, “The training will help SHG women to manage the enterprises with profit and grow the business.” Dr. Jeyaseelan, Group CEO, Hand in Hand added that, “This training will enable the SHG women to move their enterprises from informal to formal sector.”

The program directors, Prof. Thillai Rajan, Prof. G. Arun Kumar, and Prof. Saji Mathew, faculty members from Department of Management Studies, IIT Madras, took part in the launch function held at IIT-Madras on Friday, 28th July 2017, along with G. Manikandan, Company Secretary.

Experienced and social minded entrepreneurs have been invited to volunteer for being honorary mentors to the participants in the program. Those who are interested to participate in this satisfying role can contact Prof. Thillai Rajan at thillair@iitm.ac.in.

Date: 31st July 2017

Publication: Careers 360

Edition: Online

Journalist: Harshita Das

Professor: Prof Nagarajan & Prof. Thillai Rajan

Headline: IIT Madras to train 300 women entrepreneurs in Tamil Nadu

URL: <https://engineering.careers360.com/articles/iit-madras-train-300-women-entrepreneurs-in-tamil-nadu>

IIT Madras to train 300 women entrepreneurs in Tamil Nadu



Indian Institute of Technology Madras launched a new initiative on July 28, 2017 to train 300 micro and marginal women entrepreneurs in Tamil Nadu. The Institute has joined hands with CAMS Group, which is providing funds of about Rs. 45 lakh, and Hand In Hand India, a charitable trust, for this three-year project.

The programme aims to provide high impact training to women entrepreneurs by providing key inputs in different areas of business and management. This will help participants to improve their growth rates and profitability.

In order to be effective and meet the needs of the participants, the programme will be conducted in Tamil language. The beneficiaries will be identified by Hand in Hand India and finalised by IIT Madras and the training will be conducted in entrepreneurs' localities. The mentors would guide the participants in developing a business plan, and Hand In Hand would facilitate in the process of obtaining financial support for entrepreneurs developing the best business plans.

Speaking during the launch of the initiative, Prof. Nagarajan, Dean, Industry and Alumni Relations, IIT-Madras, said, "IIT Madras has established itself as a leader among academic institutions in promoting entrepreneurship among its faculty and students, with alumni being a solid pillar of support. In particular, social entrepreneurship is a key imperative of the Institute, and corporate support in the form of CSR has come as a tremendous boost in this respect."

The programme is specifically designed for the needs for women entrepreneurs and will provide insights on various areas such as finance, marketing, information technology, banking, and soft skills. The programme would be delivered by faculty members from the Department of Management Studies, IIT Madras and experienced practitioners from the industry.

Speaking about the programme, Prof. Thillai Rajan, Department of Management Studies, IIT-Madras, and one of the Programme Directors, said, "A major thrust of this program is to enable the participant assume the mind-set of an entrepreneur rather than the mind-set of being self-employed. An important problem faced by a majority of micro and marginal entrepreneurs who start and run micro enterprises is the lack

of formal training in running a business. The problem is even more acute for women entrepreneurs. While most of them have some degree of domain experience in the areas in which they operate, business skills and knowledge are mostly self-learned. Through this programme, it is our desire to make modern management insights and knowledge easily accessible to these marginal entrepreneurs.”

Each year 100 people would be trained for three years. Each programme would be for a week, which would be followed by a reflective session after six months to understand how the program has impacted the participants.

On behalf of CAMS, N K Prasad, President and Chief Executive Officer said, “CAMS as part of its CSR activities has been carrying out various projects in the fields of education, vocational training, healthcare and other social welfare activities. In the current financial year, CAMS is delighted to be associated with IIT-Madras in supporting the training focused at small scale entrepreneurs. We are sure that the proposed training which include workshops, mentoring and monitoring sessions to be carried out by eminent faculties associated with IIT Madras would go a long way in the entrepreneurs scaling up their operations.”

Date: 31st July 2017

Publication: BL on Campus

Edition: Online

Journalist: NA

Professor: Prof Nagarajan & Prof. Thillai Rajan

Headline: IIT Madras to train 300 women entrepreneurs in TN

URL: <http://www.bloncampus.com/news-wrap/iit-madras-to-train-300-women-entrepreneurs-in-tn/article9792521.ece>

IIT Madras to train 300 women entrepreneurs in TN



In tie-up with Hand in Hand and CAMS, programme will cover finance, marketing, IT and banking

Indian Institute of Technology Madras launched a new initiative on July 28 to train 300 women entrepreneurs engaged in micro and marginal enterprises in Tamil Nadu. The Institute has joined hands with CAMS Group, which is providing a funding support of about ₹45 lakh, and Hand-in-Hand India, a charitable trust, for this three-year project.

The programme aims to provide high impact training to the entrepreneurs by providing key inputs in different areas of business and management that will help them improve their growth rates and profitability.

To be effective and meet the needs of the participants, the programme will be conducted in Tamil. The beneficiaries will be identified by Hand-in-Hand India and finalised by IIT Madras and the training will be conducted in the entrepreneurs' own localities.

Social entrepreneurship

Speaking at the launch of the initiative, Prof Nagarajan, Dean, Industry and Alumni Relations, IIT-Madras, said: "IIT Madras has established itself as a leader among academic institutions in promoting entrepreneurship among its faculty and students, with the alumni being a solid pillar of support. In particular, social entrepreneurship is a key imperative of the Institute, and corporate support in the form of CSR has come as a tremendous boost in this respect."

Speaking about the programme, Prof Thillai Rajan, Department of Management Studies, IIT-Madras, and one of the Programme Directors, said: "This initiative is a result of the success of an earlier pilot done in January 2016. About half the participants in that programme successfully obtained bank loans within six months of completing it."

After the training, participants began to organise and run their businesses in a more systematic manner, which provided comfort to banks in their lending decisions.

Collaboration with CAMS, Hand in Hand

The training is specifically designed for women entrepreneurs and will provide insights on various areas such as finance, marketing, information technology, banking, and soft skills. The programme will be delivered by faculty members from the Department of Management Studies, IIT Madras and experienced practitioners from industry. The plan is to train 100 people a year, for three years. Each programme will last a week, and will be followed by a reflective session after six months to understand how the participants have been impacted.

Speaking about this project, NK Prasad, President and CEO, CAMS, said: "As part of its CSR activities, CAMS has been carrying out various projects in the fields of education, vocational training and healthcare, and other social welfare activities. In the current financial year, CAMS is delighted to be associated with IIT Madras in supporting the training focussed at small-scale entrepreneurs. The proposed training, which includes workshops, mentoring and monitoring sessions to be carried out by eminent faculty members associated with IIT Madras, will go a long way in helping the entrepreneurs scale up their operations."

Management insights

A key feature of the training is the subsequent mentoring support offered to participants. The mentors will continue to guide the participants in developing a business plan, and Hand in Hand will facilitate in the process of obtaining financial support for entrepreneurs who develop the best business plans.

Prof. Thillai Rajan pointed out that: "An important problem faced by the majority of micro and marginal entrepreneurs is the lack of formal training in running a business. The problem is even more acute for

women entrepreneurs. While most of them have some degree of domain experience in the areas in which they operate, business skills and knowledge are mostly self-learnt. Through this programme, we plan to make modern management insights and knowledge easily accessible to these marginal entrepreneurs.”

Dr Kalpana Sankar, Chairperson and Managing Trustee, Hand in Hand, said: “The training will help SHG women manage the enterprises with profit and grow the business.” Dr Jeyaseelan, Group CEO, Hand in Hand added that: “This training will enable the SHG women to move their enterprises from informal to formal sector.”

Experienced and social-minded entrepreneurs have been invited to volunteer as honorary mentors to the participants in the programme. Those interested can contact Prof. Thillai Rajan at thillair@iitm.ac.in.

Date: 31st July 2017

Publication: HT Syndication

Edition: Online

Journalist: NA

Professor: Prof Nagarajan & Prof. Thillai Rajan

Headline: IIT Madras to train 300 Micro and Marginal Women Entrepreneurs in Tamil Nadu

URL: <http://www.htsyndication.com/htsportal/india-education-diary/article/iit-madras-to-train-300-micro-and-marginal-women-entrepreneurs-in-tamil-nadu/22059327>

IIT Madras to train 300 Micro and Marginal Women Entrepreneurs in Tamil Nadu

Chennai, July 28 -- Indian Institute of Technology Madras launched a new initiative on Friday, 28th July 2017, to train 300 micro and marginal women entrepreneurs in Tamil Nadu. The Institute has joined hands with CAMS Group, which is providing a funding support of about Rs. 45 lakh, and Hand-in-Hand India, a charitable trust, for this three-year project.

The program aims to provide high impact training to the women entrepreneurs by providing key inputs in different areas of business and management. This will help participants to improve their growth rates and profitability.

In order to be effective and meet the needs of the participants, the program will be conducted in Tamil language. The beneficiaries will be identified by Hand-in-Hand...

Date: 31st July 2017

Publication: UNI

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Journalist: NA

Professor: Prof Nagarajan & Prof. Thillai Rajan

Headline: IIT-M to train 300 Micro, Marginal Women Entrepreneurs in TN

URL: <http://www.uniindia.com/iit-m-to-train-300-micro-marginal-women-entrepreneurs-in-tn/states/news/943786.html#WSeFcZhiH3hyh15i.99>

IIT-M to train 300 Micro, Marginal Women Entrepreneurs in TN

Chennai, July 28 (UNI) The Indian Institute of Technology-Madras (IIT-M) today launched a new initiative under which 300 micro and marginal women entrepreneurs would be trained in Tamil Nadu.

The IIT-M has joined hands with CAMS Group, which is providing a funding support of about Rs 45 lakh, and Hand-in-Hand India, a charitable trust, for this three-year project.

A release from IIT-M said the program aims to provide high impact training to the women entrepreneurs by providing key inputs in different areas of business and management, thereby helping them to improve their growth rates and profitability.

"To make it more effective and meet the needs of the participants, the program will be conducted in Tamil language", it said, adding, the beneficiaries would be identified by Hand-in-Hand India and finalized by IIT-M and the training would be conducted in entrepreneurs' localities.

Speaking at the launch event, Prof Nagarajan, Dean, Industry and Alumni Relations, IIT-M, said "IIT Madras has established itself as a leader among academic institutions in promoting entrepreneurship among its faculty and students, with alumni being a pillar of support."

"In particular, social entrepreneurship is a key imperative of the Institute, and corporate support in the form of CSR has come as a tremendous boost in this respect", he added.

Date: 31st July 2017

Publication: UC News

Edition: Online

Journalist: NA

Professor: Prof Nagarajan & Prof. Thillai Rajan

Headline: IIT-M to train women entrepreneurs

URL: <https://www.ucnews.in/news/IITM-to-train-women-entrepreneurs/2595252697661320.html>

IIT-M to train women entrepreneurs



Hyderabad: Indian Institute of Technology Madras launched a new initiative to train 300 micro and marginal women entrepreneurs in Tamil Nadu. The Institute has joined hands with CAMS Group, which is providing a fundingsupport of about Rs. 45 lakh, and Hand-in-Hand India, a charitable trust, for this three-year project.

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Speaking about this program, Prof. Thillai Rajan, Department of Management Studies, IIT-Madras, and one of the Program Directors, said, "This initiative is a result of the spectacular success of an earlier pilot program done in January 2016. About half of the participants in that pilot program successfully obtained bank loans within six months of completing the program."

Date: 31st July 2017

Publication: DT Next

Edition: Chennai

Page no.: 6

Journalist: NA

Professor: Prof Nagarajan

Headline: IIT-M to mentor 300 women entrepreneurs

URL: <http://www.dtnext.in/News/Citizen/2017/07/29105824/1040023/IITM-to-mentor-300-women-entrepreneurs.vpf>

IIT-M to mentor 300 women entrepreneurs

CHENNAI: The Indian Institute of Technology-Madras (IIT-M) on Friday launched a new initiative under which 300 micro and marginal women entrepreneurs would be trained in Tamil Nadu.

IIT-M has joined hands with CAMS Group, which is providing a funding support of about Rs 45 lakh, and Hand-in-Hand India, a charitable trust, for this three-year project, said a press release from IIT-M. The programme will

be conducted in Tamil, and the beneficiaries would be identified by Hand-in-Hand India and finalised by IIT-M. The training would be conducted in the entrepreneurs' localities.

Speaking at the launch event, Prof Nagarajan, Dean, Industry and Alumni Relations, IIT-M, said, "Social entrepreneurship is a key imperative of IIT-M, and corporate support in the form of CSR has come as a tremendous boost in this respect," he added. Prof Thillai Rajan, one of the

programme directors said, "This initiative is a result of the spectacular success of an earlier pilot program done in January 2016. About half of the participants in that pilot program successfully obtained bank loans within six months of completing the programme."

The programme would be delivered by faculty members from the Department of Management Studies, IIT, Madras and experienced practitioners from the industry. Each year, 100 people

would be trained. Each programme would be for a week and it would be followed by a reflective session after six months to understand how the programme has impacted the participants.

N K Prasad, President and CEO of CAMS said, a key feature of the program was the mentoring support to the participants after completion of the program. Hand in hand would facilitate in the process of obtaining financial support for entrepreneurs developing the best business plans.