

Special Presentation

IBM - Innovation Center for Education (ICE) Program

Date: June 22 and 25, 2021

Theme:

IBM's offerings and partnership with academic institutes

A special presentation in response to National Webinar held on 12th June with Dr. Anil Sahasrabudhe, Chairman, AICTE (5th National Event by IBM) by IBM Innovation Center for Education (ICE) has been held on June 22 and 25, 2021 in virtual mode by IBM and hosted by its industrial partner named Datagami Technology Services Pvt. Ltd, Mumbai - 400 069 from 11.30 am to 1.00 pm(IST). This presentation was organized to introduce IBM - ICE Program (Unique Global Initiative by IBM) to handful of educational institutes for making students of these selected institute industry ready by providing thorough understanding & training of industry-required skills from IBM experts. FET-GKV, Haridwar is one of those privileged academic institute in the country, which has been chosen by IBM-ICE Team for the Industry-Academia Collaboration. Members of IIC,GKV attended it .

This online presentation was hosted by Mr. Sanjiv Mehta, Advisor & Head Program Development, IBM Innovation Centre for Education(ICE), on following points given below:-

- ❖ IBM Collaboration with Education Institutes.
- ❖ IBM's Centre of Excellence at Education Institutes.
- ❖ IBM's Emerging Technology & Industry Domain Courses for Education Institutes.
- ❖ IBM's Schedule of Signing & Commencing Collaborations with New Education Institutes for the Academic Year 2021-22.

Initially Mr.Sanjiv Mehta discussed need of digital literacy for every human being using past survey stats of internet uses in in the world and showcased the increment in introduction of New Roles against the collapse of Old Roles with the estimated 02:01 ratio in the job market, whether roles are related to IT or some other industry. He also explained about reasons of academic institutes to be failed in regards to generate industry ready students and also asked to institute to shake hand with Subject domain Experts from Industries, considering the fact that skills provided by academic institute to their students during their courses are not at par industry specification required by specific industry, this explanation landed to "Industry-Academia Collaboration" between academic institutes & IBM – ICE.

Under this Industry-Academia Collaboration by IBM-ICE, Mr.Sanjiv Mehta briefed about how this collaboration works to develop students of associated institutes to be industry expert by giving them an appropriate skill development environment by providing subject domain experts (either from IBM itself or host institute's professor trained by IBM), fully equipped lab and study resources online & offline both via experts recognised by IBM-ICE Team. Mr.Sanjiv Mehta also added how this collaboration will help students, teacher and associated academic institute to grow in current market scenario and be future ready all the time. By presenting the example of Digital Developer Conference by IBM, he emphasised on importance of this collaboration having past average recruitment success rate almost 95%.

In the final worlds of this presentation, along with above said, Mr.Sanjiv Mehta also discussed about different – different IBM-ICE offerings on the basis of course duration, min criteria for these offerings no of specialisation opted by institute & no of student registered, schedule of signing & commencing Collaborations for the academic year 2021 - 2022 and benefits of this partnership to the host institute.

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Deepak Pansul (External)

Sanjiv Mehta (Host)

IBM Innovation Centre for Education Welcomes YOU!

Sanjiv Mehta
Senior Advisor, Program Development,
IBM Innovation Centre for Education

June 28th, 2021

Kindly Note:

- Audio and Video for the delegates have been disabled.
- Please share your queries through chat mode & we will be delighted to address them.
- We will commence at 11.30 am.

Participants | Chat

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Deepak Pansul (External)

JAN 2021 DIGITAL AROUND THE WORLD

ESSENTIAL HOODLES FOR SOCIAL, BUSINESS AND SOCIAL MEDIA USE

POPULATION	MOBILE PHONE USERS	INTERNET USERS	ACTIVE SOCIAL MEDIA USERS
7.83 BILLION 56.4%	5.22 BILLION 66.6%	4.66 BILLION 59.5%	4.20 BILLION 53.6%

Source: Hootsuite

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Deepak Pansul (External)

00:04:52

IMPACT of Global Mega Trends:

Scenario 2022: New roles increase by 133 Millions & existing roles decrease by 75 Millions

Disabling Roles	New Roles	Replacement Roles
<ul style="list-style-type: none"> Marketing Executive and Social Coordinator Human Resource Development Manager Business Development Representative and Analyst Data Analyst and Scientist Sales and Marketing Representative Sales Representative, B2B sales and Marketing, Technical and Service Workers Human Resources Specialist Financial and Insurance Assistant Customer and Technical Representative Quality Control and Inspection Operator Business Process Analyst Management and Operations Assistant Administrative Assistant Logistics and Warehouse Specialist General Clerical and Office Assistant Inventory and Order Fulfillment Technician Customer Service Representative Energy and Production Worker Industrial Production and Engineering Technician and Related Occupations (Other Occupations) 	<ul style="list-style-type: none"> IT and Software Development AI and Machine Learning Specialist Control and Operations Manager Big Data Specialist Digital Transformation Specialist Sales and Marketing Representative Public Knowledge Specialist Operational Development Specialist Software and Applications Development and Analyst Automotive Technology Operator Process Automation Operator Knowledge Management Information Security Analyst Communication and Social Media Specialist Cloud Engineering and Data Analyst Automation Engineer Building and Construction Specialist Robotics Operator and Engineer Physics and Culture Specialist Health and Wellness and Consumer Services Worker Training and Skills Development Digital Marketing and Analytics Specialist 	<ul style="list-style-type: none"> IT and Software Development Accounting, Bookkeeping and Financial Clerk Administrative and Customer Service Representative and Social Worker Client Information and Customer Service Worker Business Operations and Administrative Services Accountant and Auditor Market Research and Analytics Specialist Operational and Production Manager Postal Service Worker Chemical Operator Production and Control Worker Mechanical and Machinery Repairer Electrician Electrician and Telecommunications Installer and Repairer Health, Safety and Environment Worker Food, Beer and Beverage Worker Sales and Promotional Agents and Clerks Close to Home Retail Workers, Heavy and Street Vehicle, and Transport Workers Skilled Trades and Installation Workers

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Deepak Parag Estemaj

00:05:08

IMPACT of Global Mega Trends

Viewing Sarge Mehta (BMC)

Scenario 2022: New roles increase by 133 Millions & existing roles decrease by 75 Millions

Stable Roles	New Roles	Disappearing Roles
<ul style="list-style-type: none"> Managing Directors and Chief Executives General and Operations Managers Software and Applications Developers and Analysts Data Analysts and Scientists Sales and Marketing Professionals Sales Representatives, Wholesale and Merchants, Retail and Scientific Products Human Resources Specialists Physical and Financial Analysts Database and Network Administrators Graphic Artists and Layout Specialists Risk Management Specialists Information Security Analysts Management and Operations Analysts Healthcare Engineering Organizational Development Specialists Chemical Processing Plant Operators University and Higher Education Teachers Compliance Officers Energy and Petroleum Engineers Production Specialists and Engineers Physicians and Medical Care Helpers (First Assistants) 	<ul style="list-style-type: none"> Data Analysts and Scientists AI and Machine Learning Specialists General and Operations Managers Big Data Specialists Digital Transformation Specialists Sales and Marketing Professionals New Technology Specialists Cross-cultural Knowledge Specialists Software and Applications Developers and Analysts Information Technology Services Process Automation Specialists Integration Professionals Information Security Analysts Governance and Social Media Specialists User Experience and Usability Marketers Intelligence Designers Training and Development Specialists Business Specialists and Engineers People and Culture Specialists Client Information and Customer Service Managers Service and Solutions Designers Digital Marketing and Strategy Specialists 	<ul style="list-style-type: none"> Data Entry Clerks Accountants, Bookkeeping and Payroll Clerks Administrative and Executive Secretaries Assembly and Factory Workers Client Information and Customer Service Workers Business Services and Administration Managers Accountants and Auditors Material Handling and Stock Handling Clerks General and Clerical Managers Postal Service Clerks Financial Analysts Customer and Talent Clerks Mechanics and Machinery Equipment Technicians Transportation and Telecommunications Installers and Repairers Bank Tellers and Teller Clerks Out-View and Motoristic Drivers Sales and Purchasing Agents and Brokers Door-to-Door Sales Workers, News and Street Vendors, and Related Workers Statistical, Finance and Insurance Clerks Laborers

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Ground Reality Faced by Education Institutes

Almost all Education Institutes have started offering courses on fundamentals of IT and Emerging Technologies.

All Education Institutes ALSO do their very best to teach the fundamentals of IT and Emerging Technologies!!!

Not graduating students do not possess the required applied skills on fundamentals of IT and Emerging Technologies, skills required by the industry

Issue	Percentage
Employability of students (when they graduate)	79.7%
Absence of fresh curriculum that is benchmarked with global standards	70.3%
Lack of global perspective	63.8%
Lack of quality jobs	43.5%
Increasing fees	34.3%
Others	27.5%

Source: 2019 Deloitte Deem Survey. | deloitte insights | deloitte.com/insights

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Deepak Parag Estemaj

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Scenario 2030: Global Talent Crunch. Only India shall have surplus manpower

Talent shortage costs \$2.5 trillion in foregone revenues by 2030

Country	Labor shortage in 2030 (in 1,000s)	Total unmet demand by 2030 (in billions)
US	9,600	1,748
China	6,700	1,424
Japan	11,800	1,388
Germany	4,300	630
UK	2,900	387
Russia	2,900	255
France	1,500	207
South Korea	600	75
Netherlands	648	53
UAE	132	40
South Africa	747	-
India	-	58.5 (Surplus)

Source: The Global Talent Crunch, World Economic Forum, Sept 2019. IBM Skills Gap, Global Employment

World shall face biggest talent crunch of over 50 million by 2030 while India will be the only country with Manpower Surplus.

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Ground Reality Faced by Education Institutes

Teaching Applied knowledge on Emerging Technologies & Industry Domains requires:

- *Hiring Practitioners as teachers.*
 - Hiring Industry Experts & Practitioners as teachers is next to impossible not only due to existing norms but also due to expectations of Industry Experts & Practitioners.
- *Conducting in-depth and numerous hands-on lab exercises, as per industry standards.*
 - Time duration and expertise required to conduct & evaluate in-depth and numerous hands-on lab exercises, for each student and that too as per industry standards, is numerically and humanly impossible.
- *Resolving case studies as per industry specifications.*
 - No access to & knowledge of industry specifications as well as the availability of 'best in class exercises & case studies'.

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OPTIONS For Education Institutes

- Collaborate with a global leader, in technology & training, who has proven expertise in applied IT fundamentals, programming skills and business domains.
- A partner who has 'deep rooted and reputed' connect with academia.
- A partner who is totally reliable and trustworthy.
- And above all can offer 'globally accepted' yet affordable programs in collaboration with educational institutes.

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5 amazing facts



Few examples of IBM Inventions....

- PCs
- Laser Surgery
- RAM
- Online Shopping
- Hard Drives
- Electron Key Punch
- Scanning Tunneling Microscope
- Relational Database
- Airline Reservation System
- Virtual Machine
- Space Flights (Moon Landing)
- Bar Codes & Magnetic Strips
- New Gen Video Games Console
- IBM Watson
- ATMs
- Smallest Computer
- Biggest Computer
- Quantum Computing...

- One of the most respected brands in the world
- Operations in more than 170 countries
- 6 Noble laureates from IBM & 6 Turing awards won till date
- IBM inventors received a record 9,262 patents in 2019, marking the company's 27th consecutive year of U.S. patent leadership. Number of patents crossing the 140,000-patent milestone.
- Nearly half of the patents granted to IBM are pioneering advancements in:-
 - AI
 - Cloud computing
 - Cyber security
 - Blockchain and quantum computing

Source: <https://www.research.ibm.com/patents/>

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Deepak Parash Bhatnagar

08:19:32

About IBM - 76 years of history with Academia

Experience & Ability to Provide Industry aligned Skilling to Academia

GLOBAL UNIVERSITY PROGRAMS

1944 Mark 1 Firstly created with Harvard University	1945 IBM Research Starts at Columbia University	1960 Computer Science Academic discipline supported by IBM and later adopted worldwide	1990 Center for Advanced Studies 17 CAS launched in Toronto Currently reaching to more than 28 program worldwide	2004 Academic Initiative The world largest pool of resources for academics Currently reaching to more than 10,000 universities globally	2006 Open Collaborative Research (OCR) Academic Research Collaboration	2010 Innovation Awards Carnegie Mellon, Stanford, Penn
1951 PhD Fellowship program launched	1983 Faculty Awards (FA) Program launched	2001 Service Science Management & Engineering (SME) Academic Discipline pioneered by IBM reaching more than 300 universities worldwide	2005 IBM Academic Qualification Supporting entry level certifications for students	2008 IBM Cloud Academy Global academic community	2011 ICE Program Launched in India (AI) Simulation Program	2017 IBM ICE Graduate 25+ Specializations 18 Programs 15000+ Students 100+ Faculty 100+ Institutions

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Deepak Parash Bhatnagar

08:19:38

IBM OFFERINGS IN COLLABORATION WITH EDUCATION INSTITUTES

IBM OFFERINGS

- Programming Languages Courses
- Emerging Technology Courses
- Industry Domain Courses
- Centre of Excellence

IBM (Continued)

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Deepak Parash Bhatnagar

08:19:25

About IBM Innovation Centre for Education

To prepare the Next Generation of Young Professionals who would lead the building of a Smarter Planet, by Enabling cutting edge IT and industry domain skills directly through their University Curriculum, thus preparing them for technology leadership roles

- Established in 2011
- World class emerging technology programs offered for Students (17 Specializations) in collaboration with Higher Education Institutes.
- Thousands of pages 'applied content' curated exclusively for the program.
- Deep engagement with Institute, Faculty, Students & Industry.
- 30+ satisfied Academic Institute as customers in India (during last 10 years).
- 95% Placement Records of IBM ICE Graduates
- Irreputable & Unparalleled IBM brand & legacy in academia/ IT Education.

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Deepak Parulkar External

00:14:37

THE BIG DIFFERENCE ABOUT IBM PROGRAMS

- Designed strictly in accordance with IBM's exacting global standards of excellence in skilling using unified learning approaches.
- Bloom's Taxonomy principles applied to build critical thinking capabilities.
- Highly practice oriented, taught & assessed by leading Industry Experts.
- Comprehensive learning paths, specially curated by IBM, and aligned to specific, in-demand, job roles of the IT industry
- Exposure to industry best practices to think logically from different perspectives to solve problems.
- Is powered by a best-in-class platform
- Projects, & instant diagnostic feedback like a personal trainer.
- Regular virtual sessions and ticket-based guidance from IBM Subject Matter Experts cements the applied learning.
- Annual contests are conducted for students to benchmark themselves, and with peers across the country.

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Deepak Parulkar External

00:16:53

Skills for 21st Century – Curriculum with "T" shaped skills

Industry Aligned Curriculum /Courseware specially developed for Academia-Students including Lab material

Curricula Designed to Build T-shaped individuals with in-depth skills in CAMSS (Cloud, Analytics, Mobility, Social & Security) & Open Source Technologies & across Industries (BFSI, Telecom, Healthcare, Retail, O&G etc)

Focus is on developing capability to build "IT SOLUTIONS" (Skills -Technology + Industry Domain Processes + Business Aspects)

Emerging Technologies / Industry Domain

B.Tech with specialization in:

- Cloud Computing & Visualization
- Data Science / Business Analytics
- Open Source & Framework
- Internet of Things (IoT)
- Artificial Intelligence & Machine Learning
- Graphics & Gaming Technology
- Mobile Computing
- Open Source Software & Open Standards
- Blockchain Technology
- IT Infrastructure Management
- Blockchain
- Banking, Financial Services & Insurance Information
- Retail Information & eCommerce
- Oil & Gas Information
- Telecom Information
- Manufacturing Information
- Healthcare Information

MBA with specialization in:

- Business Analytics

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00:17:48

Emerging Technologies; The Future is "Now"!

New digital technologies are disrupting the business landscape. Demand for new job roles is created....

Key Emerging Technologies: Market size and growth

Cloud technologies \$623.3bn expected global opportunity for cloud computing by 2023 <small>(Source: Statista)</small>	Internet of Things 1.5tn connected things will be in use worldwide by 2030 <small>(Source: Statista)</small>	Data Science/Analytics 446.42bn expected global market size of Data Science/Analytics by 2025 <small>(Source: ResearchAndMarkets)</small>	Cyber Security 281.74bn expected global market size of Cyber Security by 2027 <small>(Source: Parkes Research Insights)</small>
Gaming technologies \$90.0bn expected global market size of Gaming technologies by 2026 <small>(Source: Statista)</small>	Artificial Intelligence \$733.7bn expected global market size of AI by 2027 <small>(Source: Garden View Research)</small>	Mobile Applications \$717 bn expected global market size of AI by 2030 <small>(Source: Management Market Research)</small>	Block Chain technologies \$3.1tn expected global market size of Block chain technologies by 2030 <small>(Source: Statista)</small>

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Deepak Parash (External)

00:21:01

ICE Program Offerings with Target Academic Institutions

UG/PG Integrated Program (4 yr-Graduate)
 Specialized Technology/Domain Curriculum & Courses for the 10 critical practices (200+ hrs Teach-Track)
 4 year engagement with 8 courses for each track
 Suitable for Universities or Autonomous Colleges (Flexibility to Change Curriculum)

System Center of Excellence certificate stream (3 yr-Diploma+Certificate)
 Courses Integrated/Used as into University's Curriculum Specialized Technology/Domain Curriculum & Courses for the 10 critical practices (200+ hrs Teach-Track)
 3 year engagement with 8 courses for each track
 Suitable for Group Colleges / Tech/Business Schools (Flexibility to Change Curriculum)

System Center of Excellence certificate stream (2 yr-Diploma)
 Courses Integrated/Used as into University's Curriculum Specialized Technology/Domain Curriculum & Courses for the 10 critical practices (200+ hrs Teach-Track)
 2 year engagement with 4 courses for each track
 Suitable for Group Colleges / Tech/Business Schools (Flexibility to Change Curriculum)

1-yr-IBM Certificate for Advanced technology (ICAT)
 Courses Integrated/Used as into University's Curriculum Specialized Technology/Domain Curriculum & Courses for the 10 critical practices (100+ hrs Teach-Track)
 1 year engagement with 3 courses for each track
 Suitable for Group Colleges / Tech/Business Schools (Flexibility to Change Curriculum)

Labs, Projects, SME campus sessions, Courseware access and student interactions and events with industry

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Deepak Parash (External)

00:27:03

IBM ICE Program Components

1. Curriculum Workshop
2. Business/Industry Guest Lectures
3. Content Delivery (Online-Portals)
4. Non-Academic Delivery (Business/Industry KPIs)
5. Non-Academic Delivery (Service/Support Environment)

IBM ICE Delivery

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Deepak Parash (External)

00:26:09

IBM ICE Program Components

1. Curriculum Workshop
2. Thesis like Thesis (TD)
3. Business/Industry (Industry Guest Lectures)
4. Content Delivery (Physical/Books)
5. Content Delivery (Online-Portals)
6. Non-Academic Delivery (Business/Industry KPIs)
7. Non-Academic Delivery (Service/Support Environment)

IBM ICE Delivery

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Deepak Parash Entomol

00:44:26

- Management Council Meetings
- Marketing, Admission Counselling Training programs
- Digital Recruiters Meet
- IBM Innovation Centre for Education Program Logo,
- Co-creating Curriculum Structure
- Train the Teachers' program
- Lab Support
- Unique Students engagement model
- Courseware exclusively available to IBM students
- Vibrant Concurrency of Courseware
- Access to world class e-learning ecosystem
- Project and Lab based learning combined with instructor led classroom training
- Subject Matter Experts Visits & Interaction
- Globally Recognized Digital Badge for Students from IBM
- Availability of Mentors to IBM Innovation Centre for Education Students
- Industry Updates & Webinars
- Online / Offline Discussions Forums
- Quality Management Systems & Practices

IBM ICE Academic Partnership Benefits ...



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Deepak Parash Entomol

00:47:34

IBM Innovation Centre for Education Schedule of Signing & Commencing Collaborations with New Education Institutes- Academic Year 2021-22*		
Sr. No.	Activity	Date
1.	Receipt of Institute Profile Sheet & Expression of Interest from Education Institutes.	Monday, 5 th July 2021
2.	Signing of all collaboration documentations between IBM BP, IBM & Education Institute	Thursday, 15 th July 2021
3.	Full Day Workshop with IBM Collaborated Education Institutes for their Leadership along with Marketing, Admission & Counselling, Placement Team AND the Academic Team.	Tuesday, 20 th July 2021
4.	Digital & Physical Launch of IBM Collaboration by the IBM Collaborated Education Institutes	Monday, 26 th July 2021
5.	In-depth Train The Teacher (T3) Sessions for faculty who will be teaching IBM Specializations	Tuesday, 27 th July 2021
6.	Weekly Student Counselling Digital Sessions for IBM Collaborated Education Institutes.	Every Week with effect from 3 rd August 2021
7.	Induction Program for IBM Students	To be finalized with each Collaborated Education Institutes
8.	Commencement of Academic Session for IBM Students	



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Deepak Parash Entomol

01:07:22

Sanjiv Mehta (IBM) (Host)



Participants Chat

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