Special Presentation – I & II
IBM - Innovation Center for Education (ICE) Program
Date: June 22 & 25, 2021

Theme:

IBM's offerings and partnership with academic institutes

Two special presentation (I & II) 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 & 25, 2021 respectively in virtual mode by IBM and hosted by its industrial partner named Datagami Technology Services Pvt. Ltd, Mumbai - 400 069(9702934397) from 11.30 am to 1.00 pm (IST) both days. 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. Dr. Mayank Aggarwal (HOD -CSE Dept) along with Dr. Suyash Bhardwaj, Dr. Nishant Kumar, Mr. Deepak Painuli & Mr. Sumit Bansal (Assistant Professor, FET-GKV), have attended the program as representative from FET-GKV Haridwar.

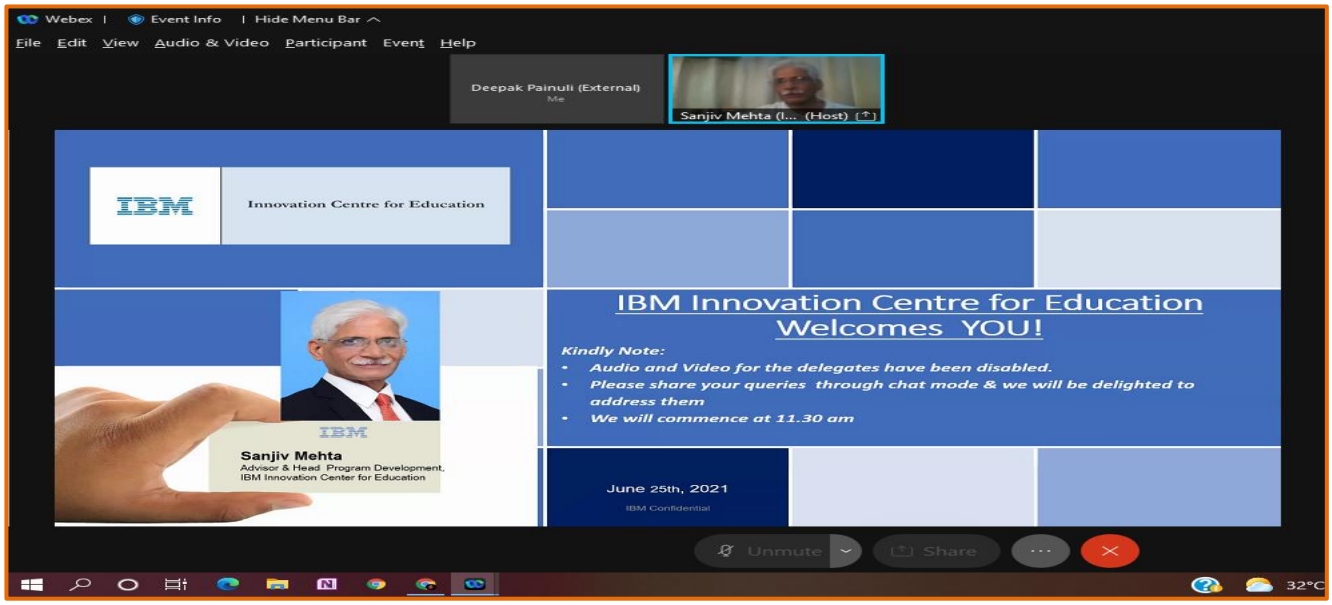
This online presentation was hosted by Mr. Sanjiv Mehta, Advisor & Head Program Development, IBM Innovation Centre for Education (ICE), on following points given below: -

- 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 by discussing challenges educational institutes have to face due to innumerable constraints 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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Sanjiv Mehta (I... (Host)
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Innovation Centre for Education
IBM Innovation Centre for Education Welcomes YOU!
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
Sanjiv Mehta
Advisor & Head Program Development,
IBM Innovation Center for Education
June 25th, 2021
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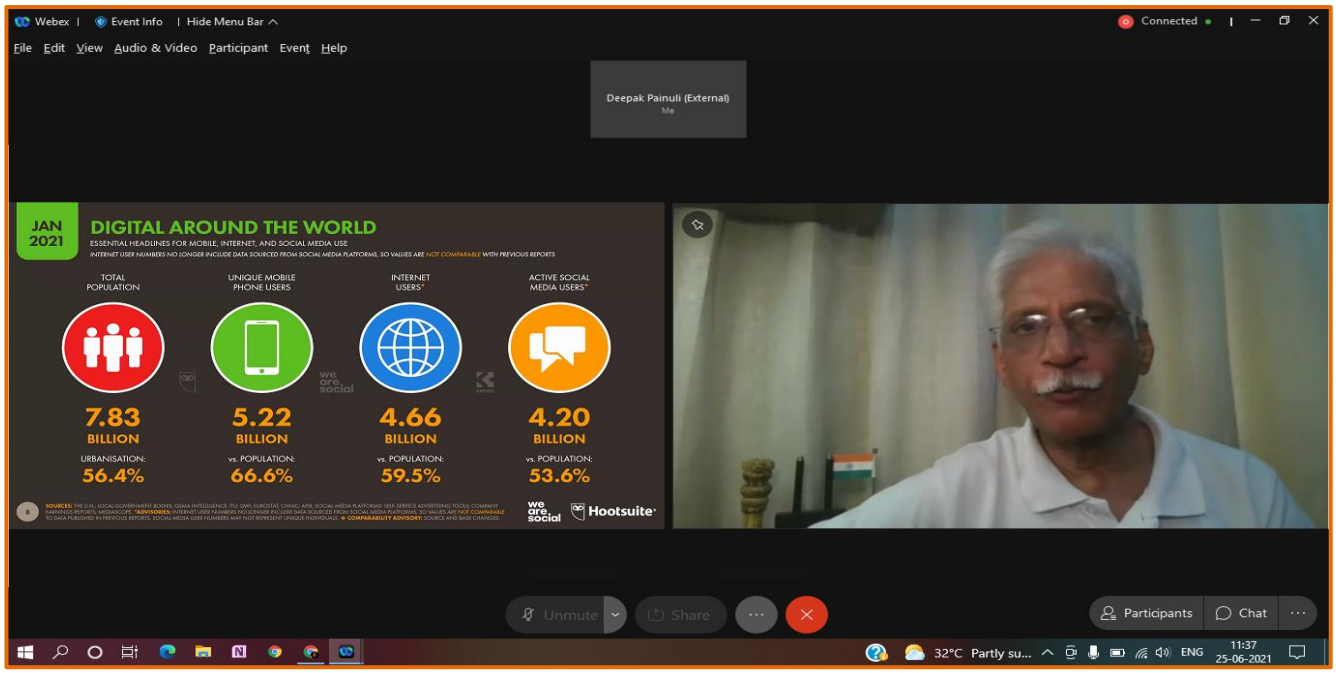
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JAN 2021
DIGITAL AROUND THE WORLD
ESSENTIAL HEADLINES FOR MOBILE, INTERNET, AND SOCIAL MEDIA USE
TOTAL POPULATION
UNIQUE MOBILE PHONE USERS
INTERNET USERS*
ACTIVE SOCIAL MEDIA USERS*
7.83 BILLION
URBANISATION: 56.4%
5.22 BILLION
vs. POPULATION: 66.6%
4.66 BILLION
vs. POPULATION: 59.5%
4.20 BILLION
vs. POPULATION: 53.6%
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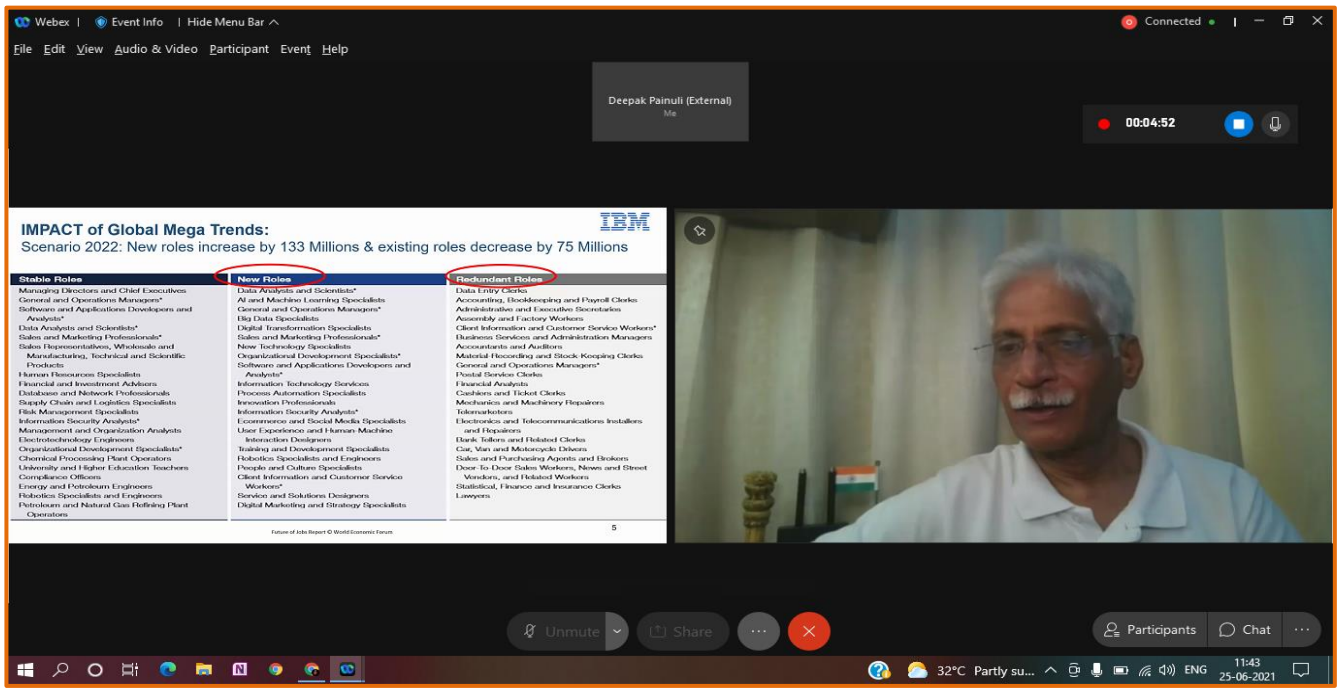
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IMPACT of Global Mega Trends:
Scenario 2022: New roles increase by 133 Millions & existing roles decrease by 75 Millions
IBM
Stable Roles
New Roles
Redundant Roles
Managing Directors and Chief Executives
General and Operations Managers*
Software and Applications Developers and Analysts*
Data Analysts and Scientists*
Sales and Marketing Professionals*
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products
Human Resources Specialists
Financial and Investment Advisers
Database and Network Professionals
Supply Chain and Logistics Specialists
Risk Management Specialists
Information Security Analysts*
Management and Organization Analysts
Electrotechnology Engineers
Organizational Development Specialists*
Chemical Processing Plant Operators
University and Higher Education Teachers
Compliance Officers
Energy and Petroleum Engineers
Robotics Specialists and Engineers
Petroleum and Natural Gas Refining Plant Operators
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
Organizational Development Specialists*
Software and Applications Developers and Analysts*
Information Technology Services
Process Automation Specialists
Innovation Professionals
Information Security Analysts*
Ecommerce and Social Media Specialists
User Experience and Human-Machine Interaction Designers
Training and Development Specialists
Robotics Specialists and Engineers
People and Culture Specialists
Client Information and Customer Service Workers*
Service and Solutions Designers
Digital Marketing and Strategy Specialists
Data Entry Clerks
Accounting, 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 Recording and Stock-Keeping Clerks
General and Operations Managers*
Postal Service Clerks
Financial Analysts
Cashiers and Ticket Clerks
Mechanics and Machinery Repairers
Telemarketers
Electronics and Telecommunications Installers and Repairers
Bank Tellers and Related Clerks
Car, Van and Motorcycle Drivers
Sales and Purchasing Agents and Brokers
Door-To-Door Sales Workers, News and Street Vendors, and Related Workers
Statistical, Finance and Insurance Clerks
Lawyers
Future of Jobs Report © World Economic Forum
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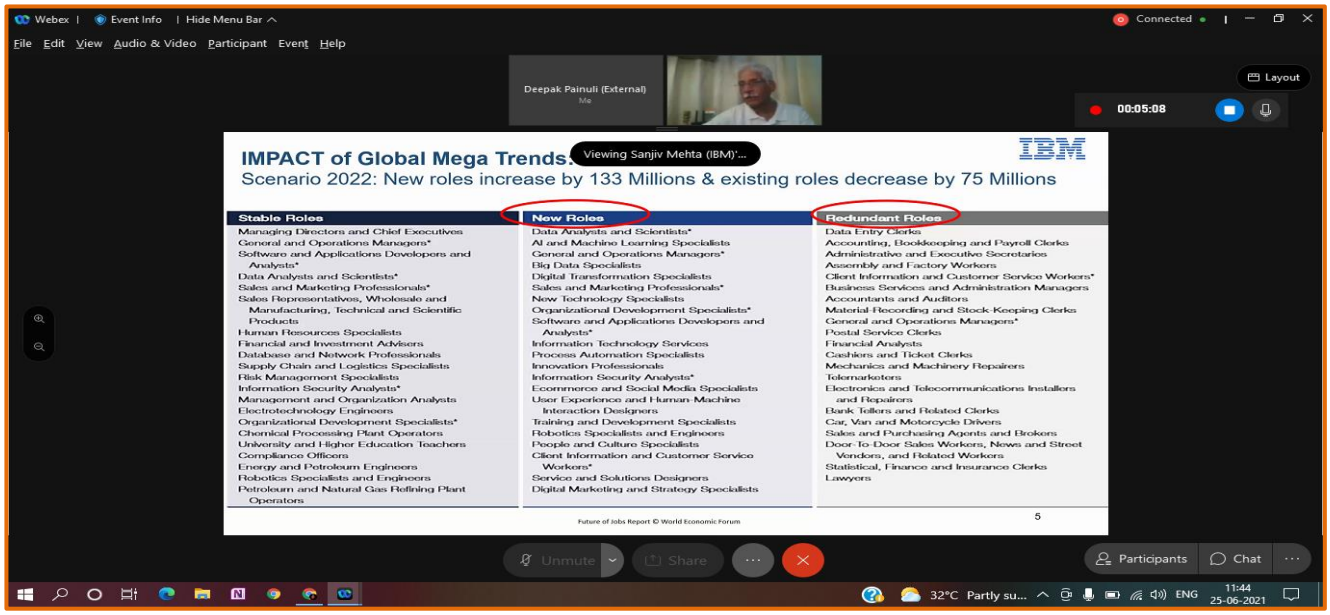
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IMPACT of Global Mega Trends:
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Stable Roles
Managing Directors and Chief Executives
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Software and Applications Developers and Analysts*
Data Analysts and Scientists*
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Financial and Investment Advisers
Database and Network Professionals
Supply Chain and Logistics Specialists
Risk Management Specialists
Information Security Analysts*
Management and Organization Analysts
Electrotechnology Engineers
Organizational Development Specialists*
Chemical Processing Plant Operators
University and Higher Education Teachers
Compliance Officers
Energy and Petroleum Engineers
Robotics Specialists and Engineers
Petroleum and Natural Gas Refining Plant Operators
New Roles
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AI and Machine Learning Specialists
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Organizational Development Specialists*
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Robotics Specialists and Engineers
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Client Information and Customer Service Workers*
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General and Operations Managers*
Postal Service Clerks
Financial Analysts
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Bank Tellers and Related Clerks
Car, Van and Motorcycle Drivers
Sales and Purchasing Agents and Brokers
Door-To-Door Sales Workers, News and Street Vendors, and Related Workers
Statistical, Finance and Insurance Clerks
Lawyers
Future of Jobs Report © World Economic Forum
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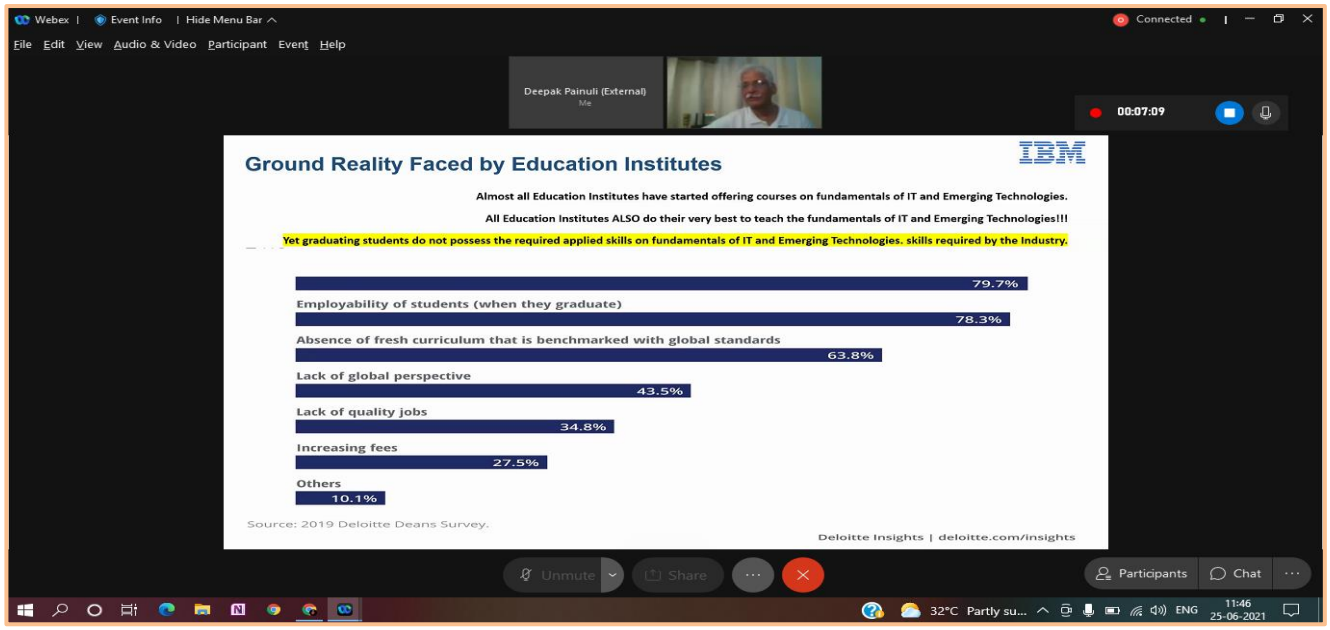
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Ground Reality Faced by Education Institutes
Almost all Education Institutes have started offering courses on fundamentals of IT and Emerging Technologies.
All Education Institutes ALSO do their very best to teach the fundamentals of IT and Emerging Technologies!!!
Yet graduating students do not possess the required applied skills on fundamentals of IT and Emerging Technologies. skills required by the Industry.
79.7%
Employability of students (when they graduate)
78.3%
Absence of fresh curriculum that is benchmarked with global standards
63.8%
Lack of global perspective
43.5%
Lack of quality jobs
34.8%
Increasing fees
27.5%
Others
10.1%
Source: 2019 Deloitte Deans Survey.
Deloitte Insights | deloitte.com/insights
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Scenario 2030: Global Talent Crunch. Only India shall have surplus manpower
Talent shortage costs $8.5 trillion in foregone revenues by 2030
Labour shortage in 2030 (x 1,000)
Total unrealised revenue by 2030 ($ / billion)
US 6,600 1,748
China 6,700 1,434
Japan 13,800 1,386
Germany 4,900 630
UK 2,990 408
Russia 2,800 297
France 1,500 215
Saudi Arabia 663 207
Netherlands 548 71
UAE 111 51
South Africa 747 29
Total for these countries:
$8.5 trillion
Source: The Global Talent Crunch, Korn Ferry, Man Bites Dog, Oxford Analytica
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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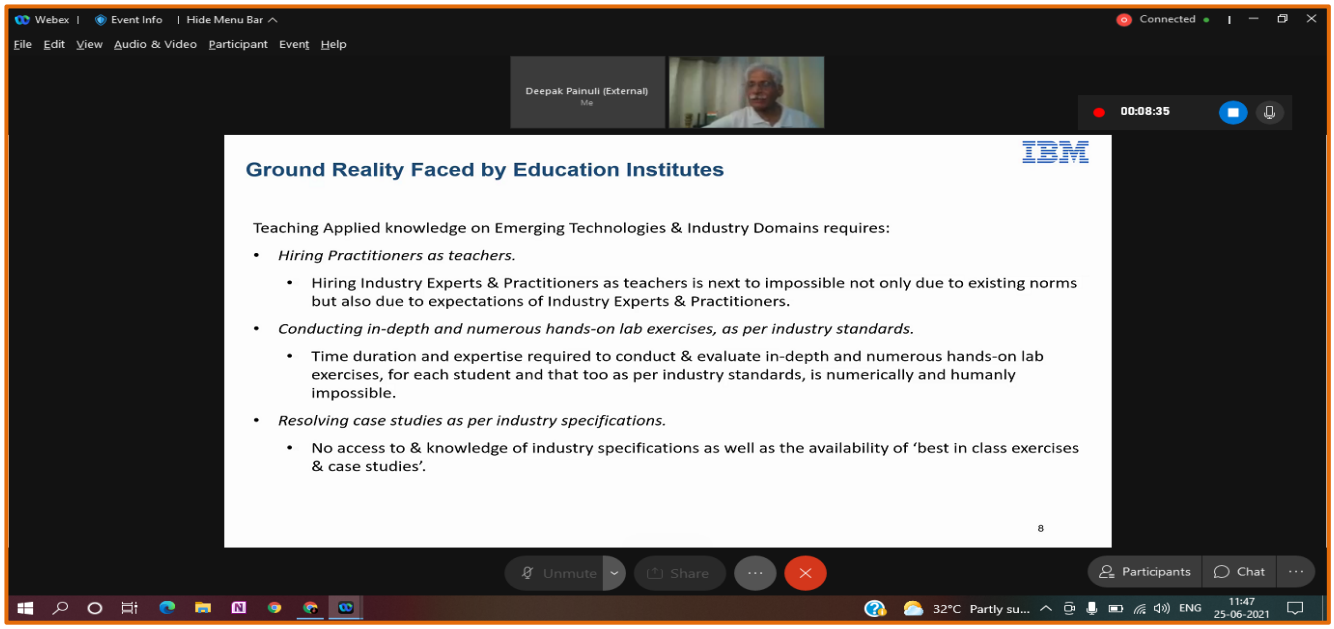
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IBM
Ground Reality Faced by Education Institutes
Teaching Applied knowledge on Emerging Technologies & Industry Domains requires:
Hiring Practitioners as teachers.
Hiring Industry Experts & Practitioners as teachers is next to impossible not only due 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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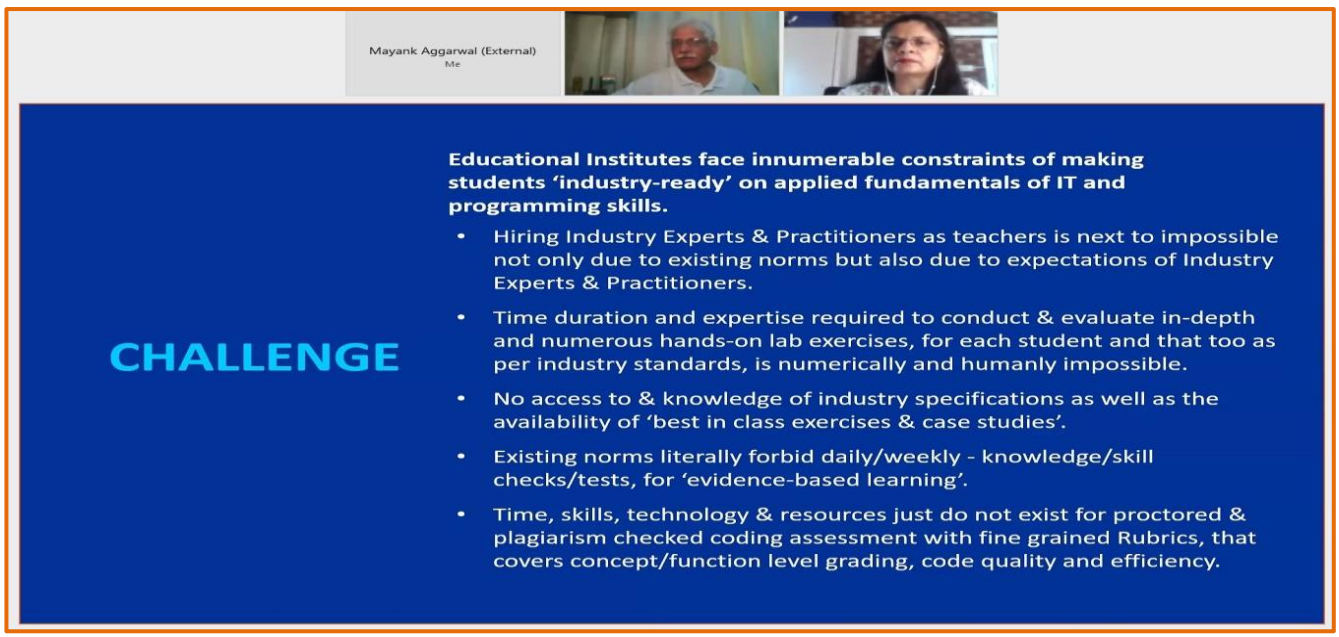
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CHALLENGE
Educational Institutes face innumerable constraints of making students 'industry-ready' on applied fundamentals of IT and programming skills.
Hiring Industry Experts & Practitioners as teachers is next to impossible not only due to existing norms but also due to expectations of Industry Experts & Practitioners.
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.
No access to & knowledge of industry specifications as well as the availability of 'best in class exercises & case studies'.
Existing norms literally forbid daily/weekly - knowledge/skill checks/tests, for 'evidence-based learning'.
Time, skills, technology & resources just do not exist for proctored & plagiarism checked coding assessment with fine grained Rubrics, that covers concept/function level grading, code quality and efficiency.

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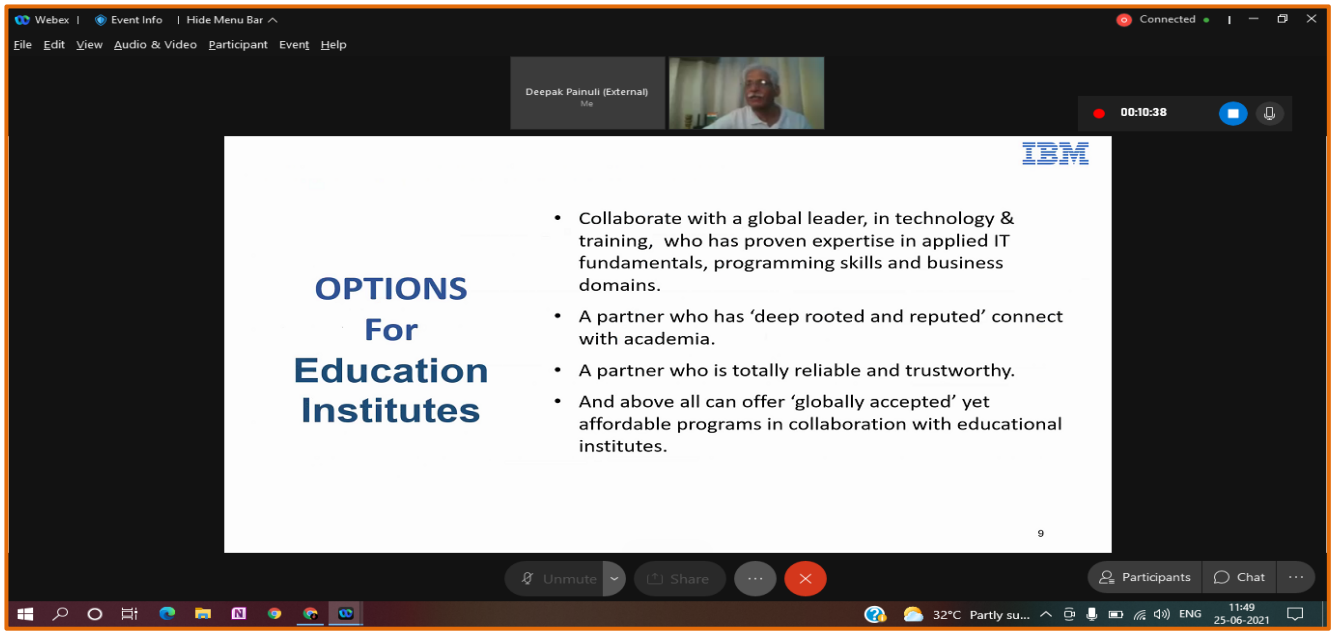
IBM Innovation Centre for Education
DIGITAL LEARNING PROGRAM
THE BIG DIFFERENCE
smart online platform to facilitate peer-to-peer learning.
Regular interactive virtual sessions and ticket-based guidance from IBM Subject Matter Experts cements the applied learning.
Frequent online coding contests are conducted for students to benchmark themselves, and with peers across the country.
Intuitive visual dashboards, at the student, department and college levels, that provide key insights for all stakeholders, including recruiters.
The proctored certification exam conducted in a supervised environment tests the knowledge and key concepts, and also critical problem-solving capabilities/coding skills with fine grained Rubrics, that cover concept/function level grading, code quality and efficiency.
Upon successful completion of these Digital Learning Programs the students are fully equipped with 'Industry Ready Programming Skills' and also get the much-coveted IBM Innovation Centre for Education Digital Badge.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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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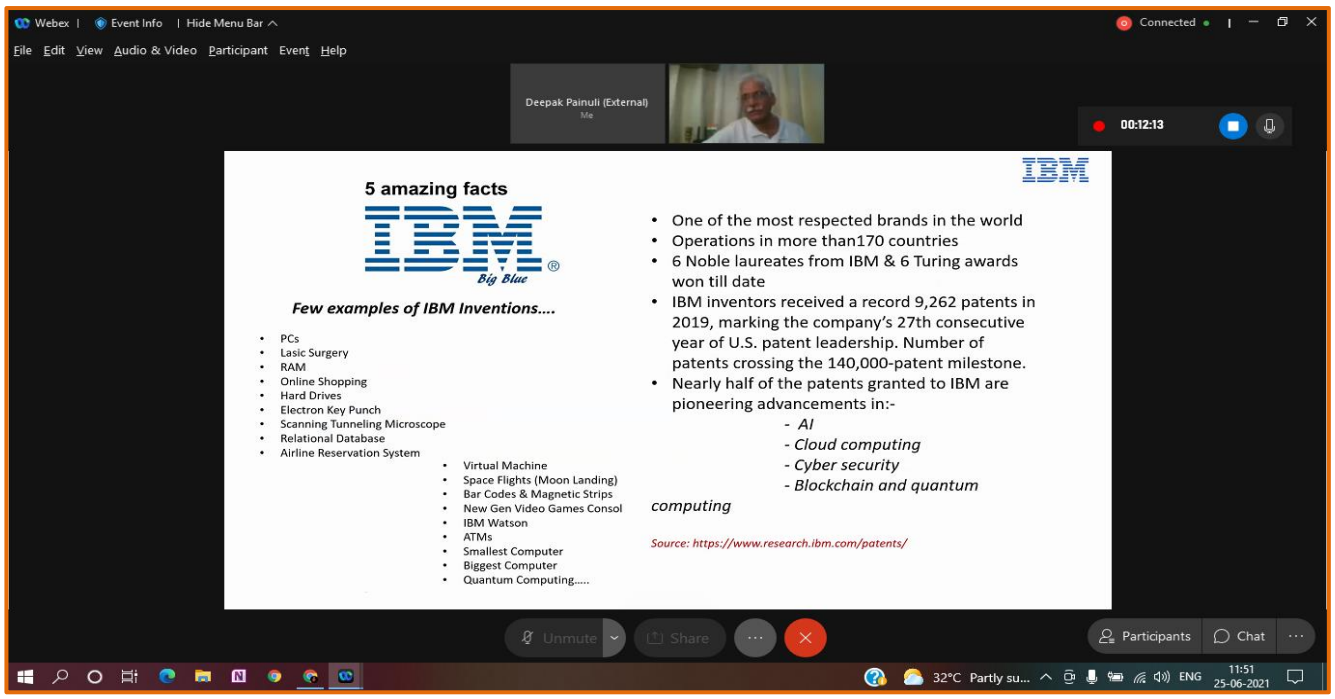
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IBM
5 amazing facts
IBM Big Blue
Few examples of IBM Inventions....
• PCs
• Lasic Surgery
• RAM
• Online Shopping
• Hard Drives
• Electron Key Punch
• Scanning Tunneling Microscope
• Relational Database
• Airline Reservation System
• Virtual Machine
• Space Flights (Moon Landing)
• Bar Codes & Magnetic Strips
• New Gen Video Games Consol
• IBM Watson
• ATMs
• Smallest Computer
• Biggest Computer
• Quantum Computing.....
• One of the most respected brands in the world
• Operations in more than170 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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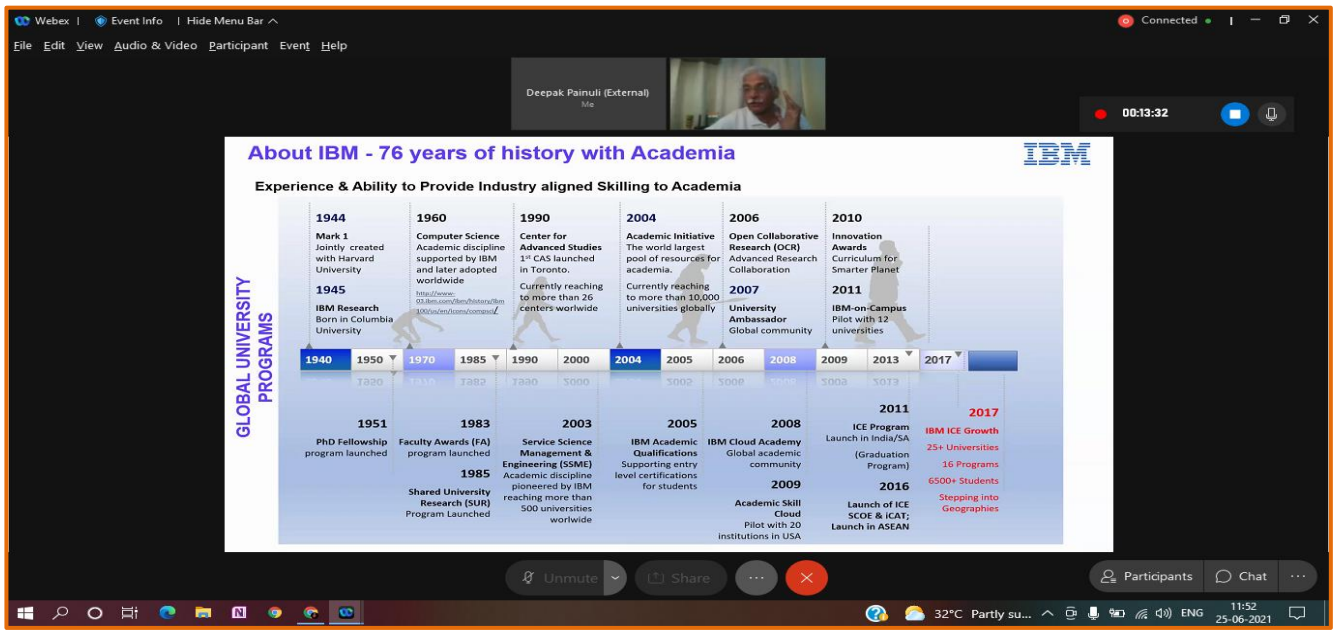
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About IBM - 76 years of history with Academia
IBM
Experience & Ability to Provide Industry aligned Skilling to Academia
GLOBAL UNIVERSITY PROGRAMS
1940 Mark 1 Jointly created with Harvard University
1945 IBM Research Born in Columbia University
1951 PhD Fellowship program launched
1960 Computer Science Academic discipline supported by IBM and later adopted worldwide
1983 Faculty Awards (FA) program launched
1985 Shared University Research (SUR) Program Launched
1990 Center for Advanced Studies 1st CAS launched in Toronto.
Currently reaching to more than 26 centers worlwide
2003 Service Science Management & Engineering (SSME) Academic discipline pioneered by IBM reaching more than 500 universities worlwide
2004 Academic Initiative The world largest pool of resources for academia.
Currently reaching to more than 10,000 universities globally
2005 IBM Academic Qualifications Supporting entry level certifications for students
2006 Open Collaborative Research (OCR) Advanced Research Collaboration
2007 University Ambassador Global community
2008 IBM Cloud Academy Global academic community
2009 Academic Skill Cloud Pilot with 20 institutions in USA
2010 Innovation Awards Curriculum for Smarter Planet
2011 IBM-on-Campus Pilot with 12 universities
2011 ICE Program Launch in India/SA (Graduation Program)
2016 Launch of ICE SCOE & iCAT; Launch in ASEAN
2017 IBM ICE Growth
25+ Universities
16 Programs
6500+ Students
Stepping into Geographies
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IBM OFFERINGS IN COLLABORATION WITH EDUCATION INSITUTES
IBM
IBM OFFERINGS
• Programming Languages Courses
• Emerging Technology Courses
• Industry Domain Courses
• Centre of Excellence
IBM Confidential
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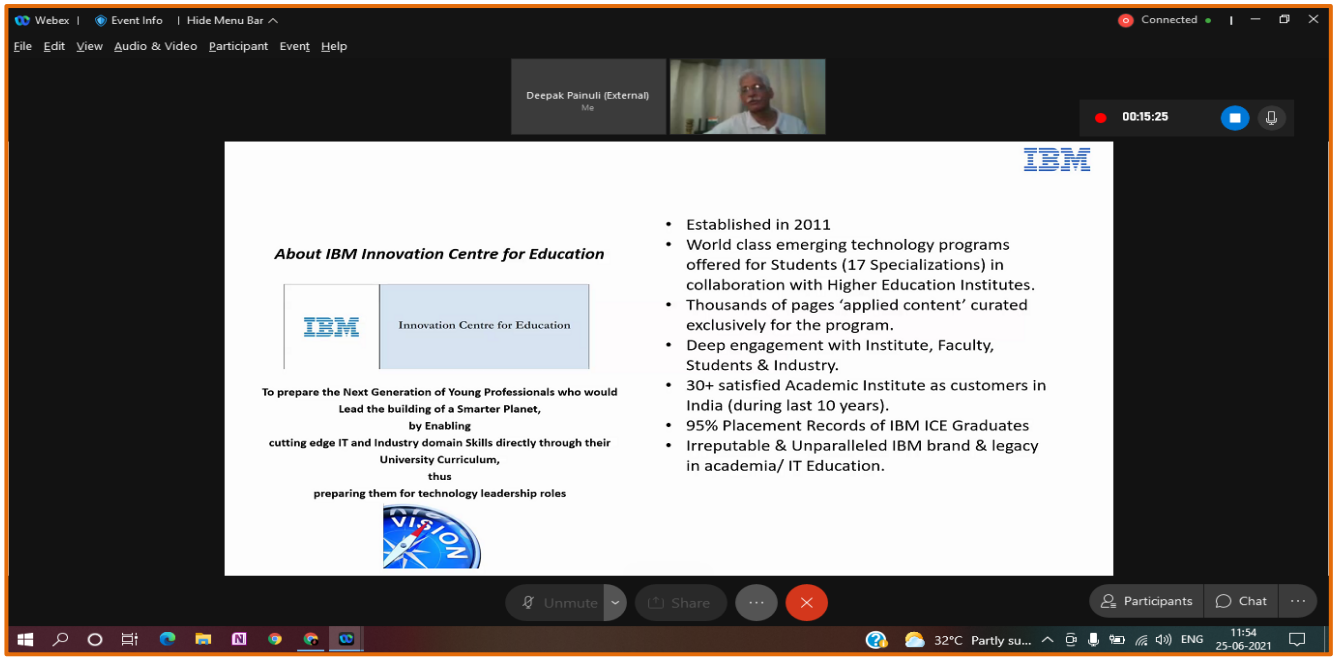
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About IBM Innovation Centre for Education
IBM
Innovation Centre for Education
To prepare the Next Generation of Young Professionals who would
Lead the building of a Smarter Planet,
by Enabling
cutting edge IT and Industry domain Skills directly through their University Curriculum,
thus
preparing them for technology leadership roles
VISION
• 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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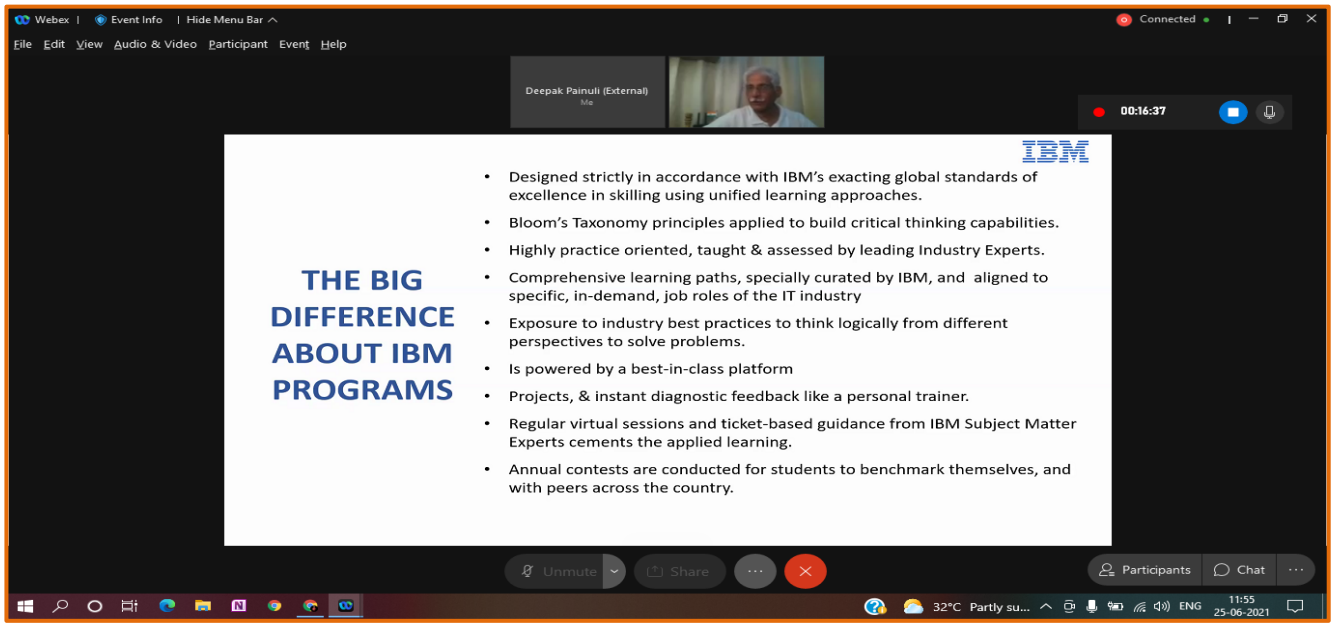
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IBM
THE BIG DIFFERENCE ABOUT IBM PROGRAMS
• Designed strictly in accordance with IBM's exacting global standards of excellence in skilling using unified learning approaches.
• Bloom's Taxonomy principles applied to build critical thinking capabilities.
• 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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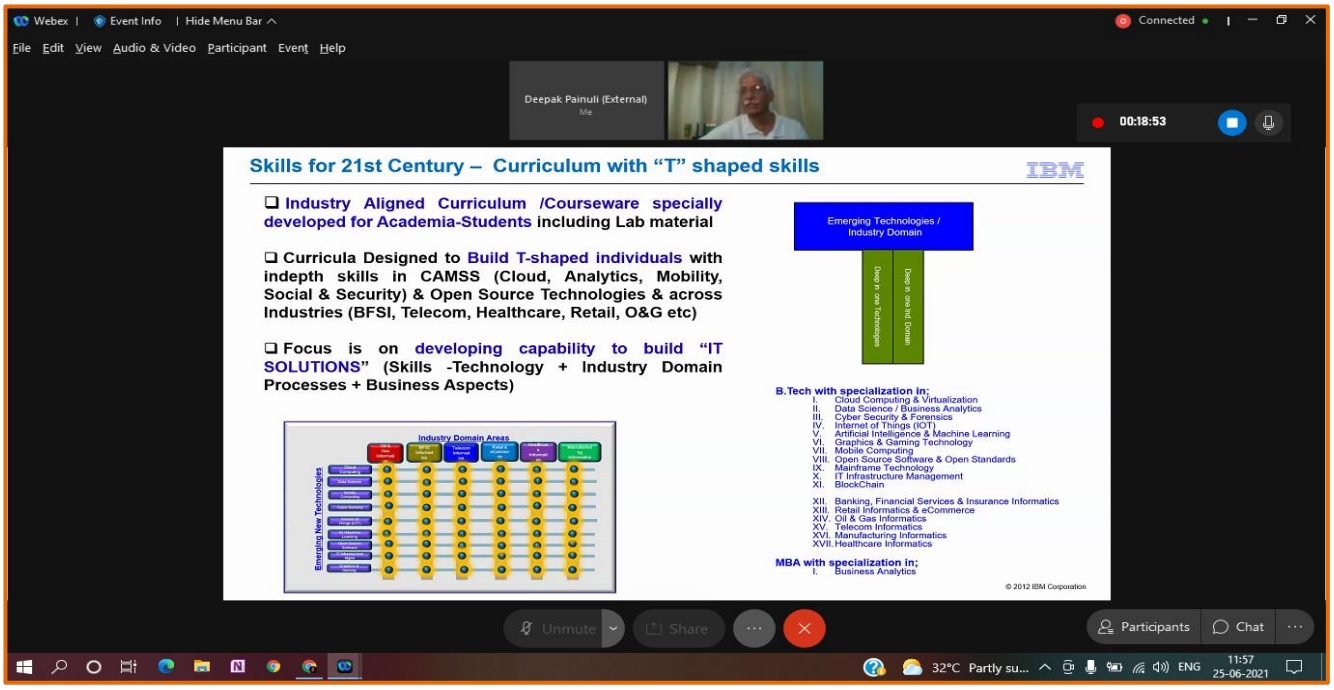
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Skills for 21st Century – Curriculum with "T" shaped skills
IBM
❑ Industry Aligned Curriculum /Courseware specially developed for Academia-Students including Lab material
❑ Curricula Designed to Build T-shaped individuals with indepth skills in CAMSS (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)
Industry Domain Areas
Emerging New Technologies
Emerging Technologies / Industry Domain
Deep in core Technologies
Deep in one Ind. Domain
B.Tech with specialization in;
I. Cloud Computing & Virtualization
II. Data Science / Business Analytics
III. Cyber Security & Forensics
IV. Internet of Things (IOT)
V. Artificial Intelligence & Machine Learning
VI. Graphics & Gaming Technology
VII. Mobile Computing
VIII. Open Source Software & Open Standards
IX. Mainframe Technology
X. IT Infrastructure Management
XI. BlockChain
XII. Banking, Financial Services & Insurance Informatics
XIII. Retail Informatics & eCommerce
XIV. Oil & Gas Informatics
XV. Telecom Informatics
XVI. Manufacturing Informatics
XVII. Healthcare Informatics
MBA with specialization in;
I. Business Analytics
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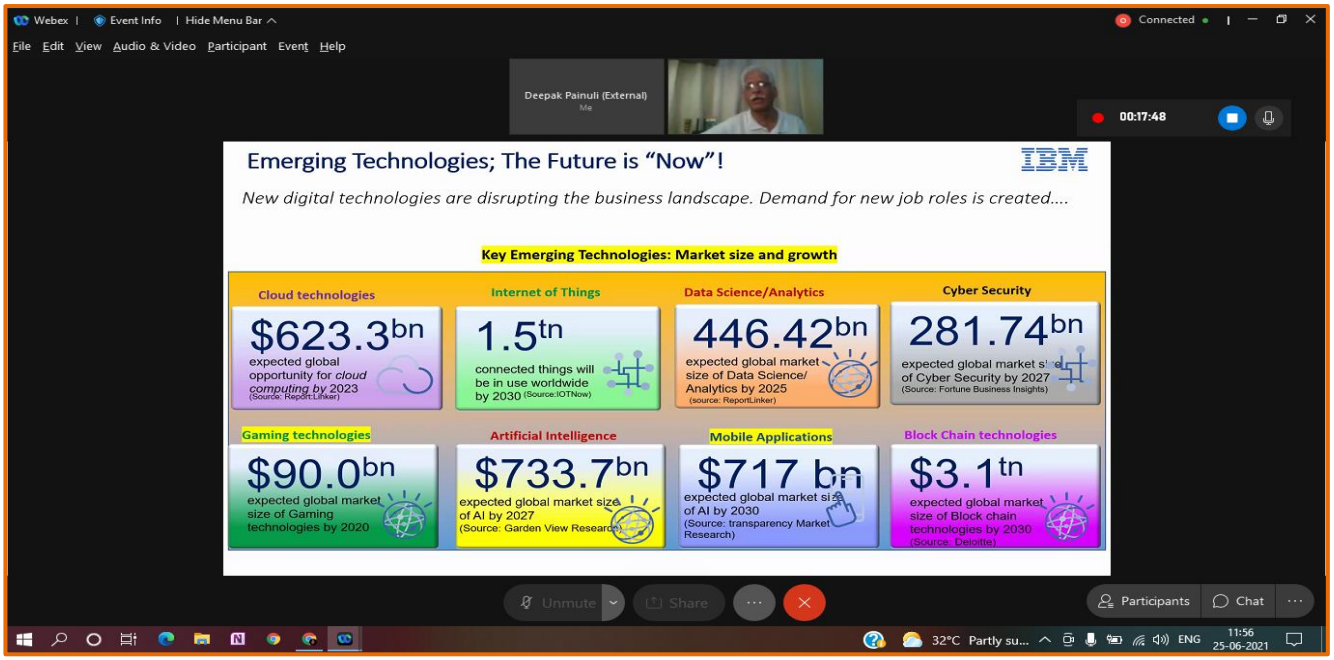
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Emerging Technologies; The Future is "Now"!
IBM
New digital technologies are disrupting the business landscape. Demand for new job roles is created....
Key Emerging Technologies: Market size and growth
Cloud technologies
$623.3bn
expected global opportunity for cloud computing by 2023
(Source: ReportLinker)
Internet of Things
1.5tn
connected things will be in use worldwide by 2030 (Source:IOTNow)
Data Science/Analytics
446.42bn
expected global market size of Data Science/ Analytics by 2025
(source: ReportLinker)
Cyber Security
281.74bn
expected global market size of Cyber Security by 2027
(Source: Fortune Business Insights)
Gaming technologies
$90.0bn
expected global market size of Gaming technologies by 2020
Artificial Intelligence
$733.7bn
expected global market size of AI by 2027
(Source: Garden View Research)
Mobile Applications
$717 bn
expected global market size of AI by 2030
(Source: transparency Market Research)
Block Chain technologies
$3.1tn
expected global market size of Block chain technologies by 2030
(Source: Deloitte)
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ICE Program Offerings with Target Academic Institutions
IBM
Cloud Computing & Virtualization Specialist
Data Analytics Diploma
Data Analytics Diploma
UG/PG Integrated Program
(4 yr-Graduate)
System Center of Excellence certificate stream
(3 yr-Diploma+ Certificate)
System Center of Excellence certificate stream
(2 yr-Diploma)
1 yr-IBM Certificate for Advanced technology (iCAT)
Credited Courses integrated into University's Curriculum
Specialized Technology/Domain Curriculums & Courses for the 16 critical practices (500+ Hrs Teach time).
4 year engagement with 8 courses for each track
Suitable for Universities or Autonomous Colleges (Flexibility to Change Curriculum)
Courses integrated/Add-on into University's Curriculum
Specialized Technology/Domain Curriculums & Courses for the 16 critical practices (400+ Hrs Teach time).
3 year engagement with 6 courses for each track
Suitable for Engg Colleges / Tech./Business Schools (Flexibility to change Curriculum)
Courses integrated/Add-on into University's Curriculum
Specialized Technology/Domain Curriculums & Courses for the 16 critical practices (250+ Hrs Teach time).
2year engagement with 4 courses for each track
Suitable for Engg Colleges / Tech./Business Schools (Flexibility to change Curriculum)
Courses integrated/Add-on into University's Curriculum
Specialized Technology/Domain Curriculums & Courses for the 16 critical practices (120+ Hrs Teach time).
1 year engagement with 3 courses for each track
Suitable for Engg 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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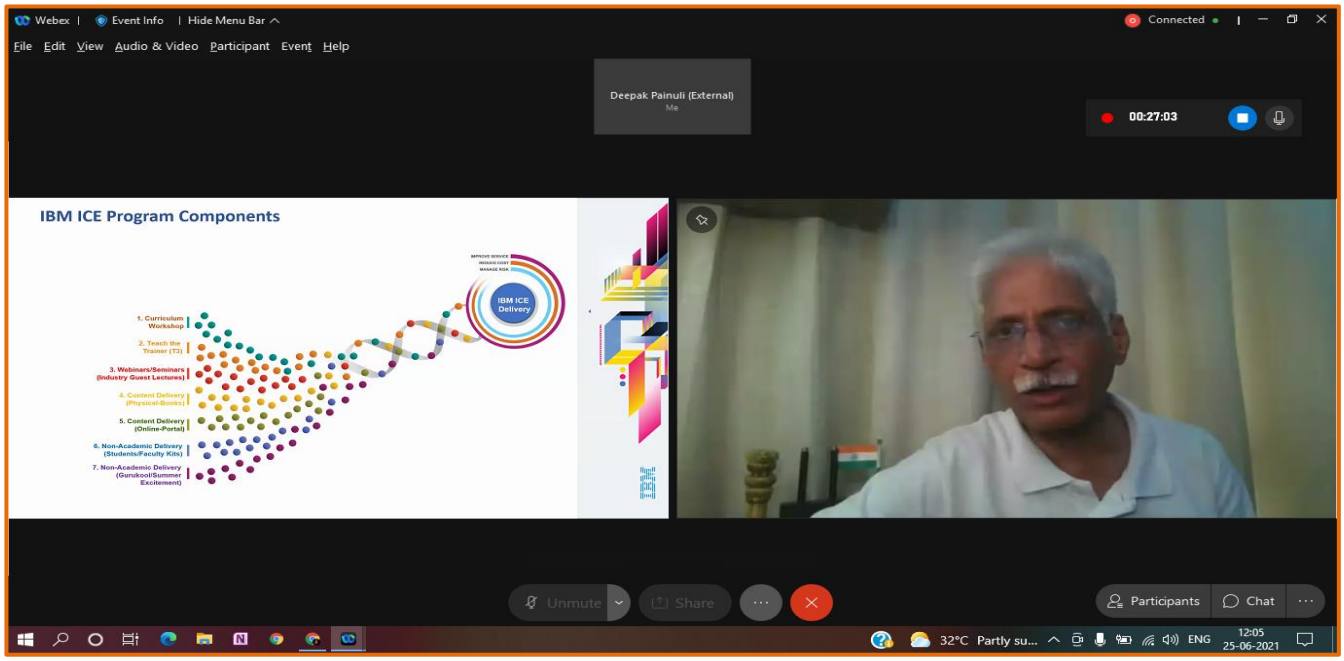
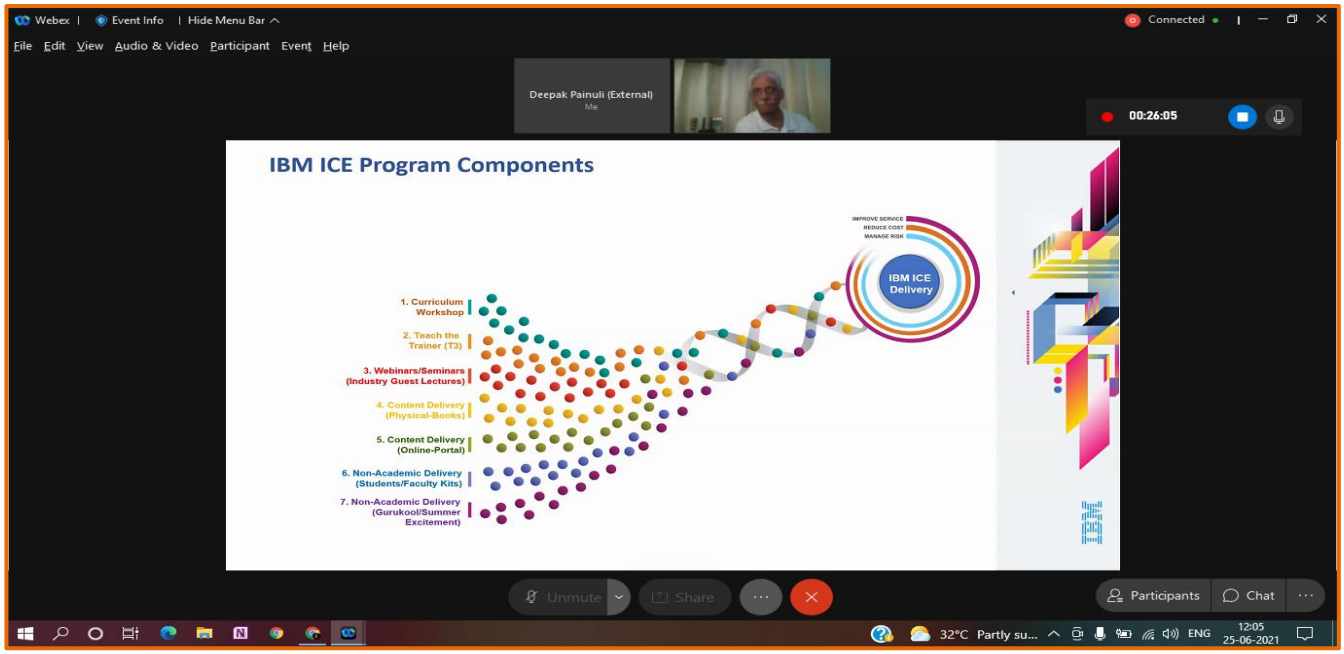
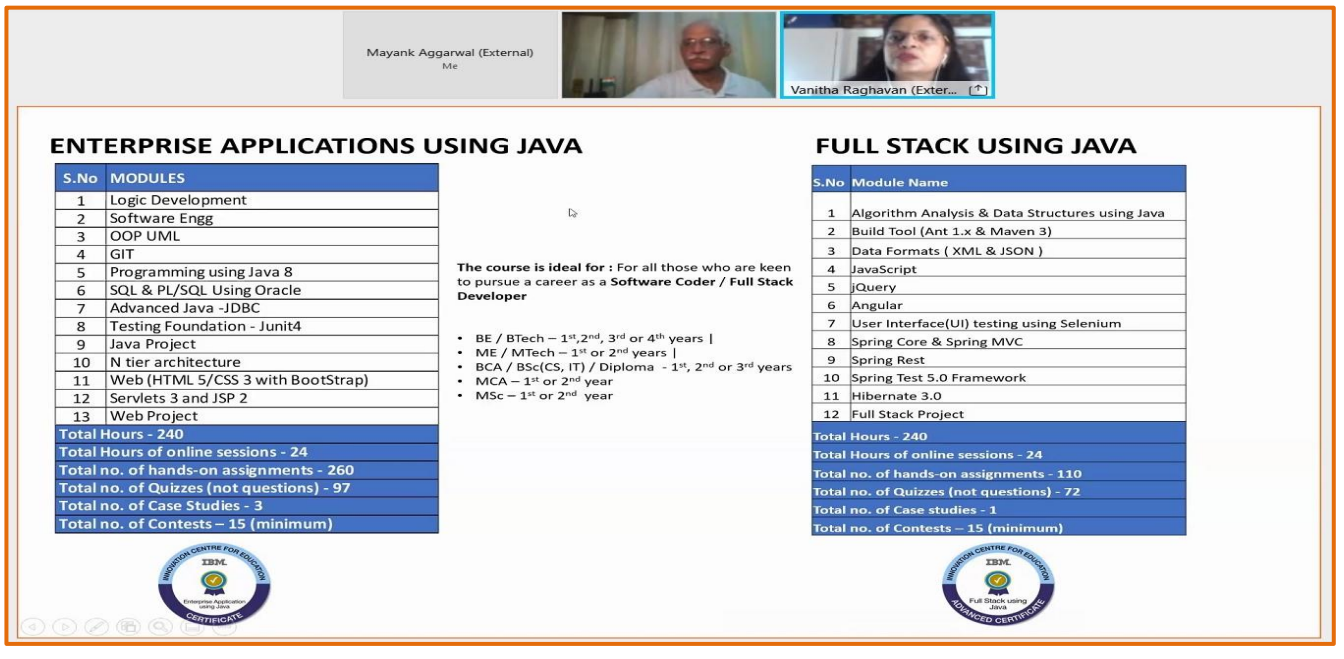






ENTERPRISE APPLICATIONS USING JAVA

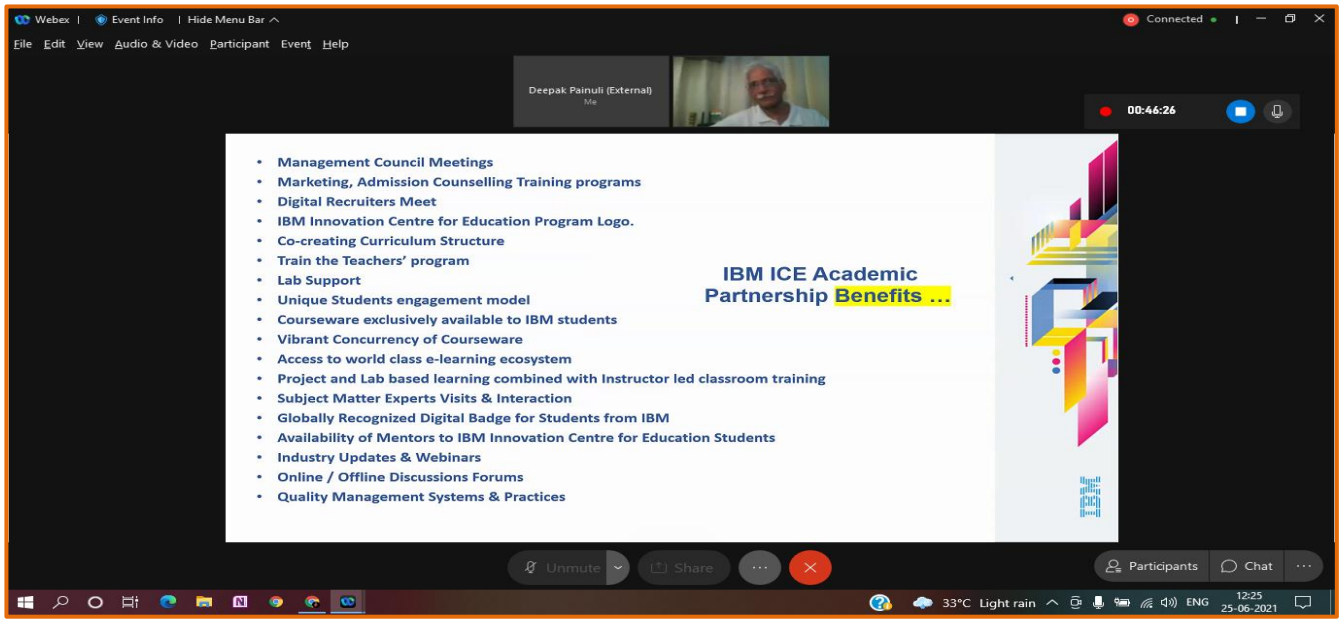
S.No	MODULES
1	Logic Development
2	Software Engg
3	OOP UML
4	GIT
5	Programming using Java 8
6	SQL & PL/SQL Using Oracle
7	Advanced Java -JDBC
8	Testing Foundation - Junit4
9	Java Project
10	N tier architecture
11	Web (HTML 5/CSS 3 with BootStrap)
12	Servlets 3 and JSP 2
13	Web Project
Total Hours - 240	
Total Hours of online sessions - 24	
Total no. of hands-on assignments - 260	
Total no. of Quizzes (not questions) - 97	
Total no. of Case Studies - 3	
Total no. of Contests – 15 (minimum)	

The course is ideal for : For all those who are keen to pursue a career as a **Software Coder / Full Stack Developer**

- BE / BTech – 1st,2nd, 3rd or 4th years |
- ME / MTech – 1st or 2nd years |
- BCA / BSc(CS, IT) / Diploma - 1st, 2nd or 3rd years
- MCA – 1st or 2nd year
- MSc – 1st or 2nd year

FULL STACK USING JAVA

S.No	Module Name
1	Algorithm Analysis & Data Structures using Java
2	Build Tool (Ant 1.x & Maven 3)
3	Data Formats (XML & JSON)
4	JavaScript
5	jQuery
6	Angular
7	User Interface(UI) testing using Selenium
8	Spring Core & Spring MVC
9	Spring Rest
10	Spring Test 5.0 Framework
11	Hibernate 3.0
12	Full Stack Project
Total Hours - 240	
Total Hours of online sessions - 24	
Total no. of hands-on assignments - 110	
Total no. of Quizzes (not questions) - 72	
Total no. of Case studies - 1	
Total no. of Contests – 15 (minimum)	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IBM ICE Academic Partnership Benefits …
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
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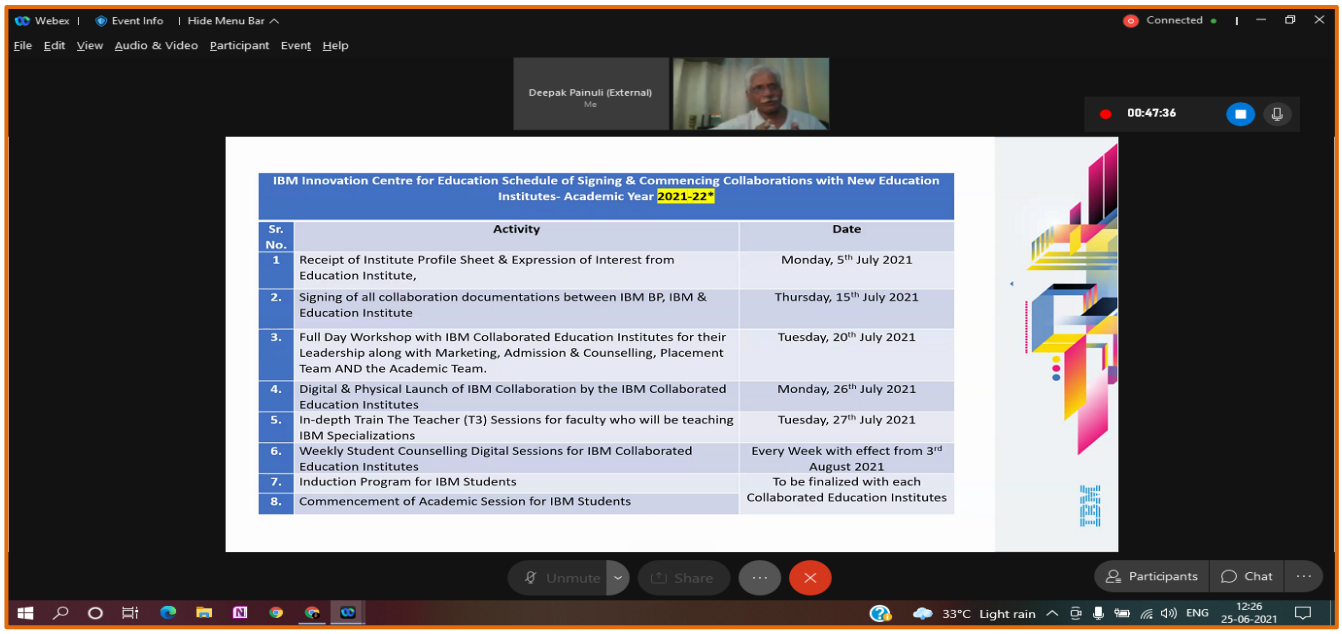
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IBM Innovation Centre for Education Schedule of Signing & Commencing Collaborations with New Education Institutes- Academic Year 2021-22*
Sr. No.
Activity
Date
1 Receipt of Institute Profile Sheet & Expression of Interest from Education Institute, Monday, 5th July 2021
2. Signing of all collaboration documentations between IBM BP, IBM & Education Institute Thursday, 15th 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, 20th July 2021
4. Digital & Physical Launch of IBM Collaboration by the IBM Collaborated Education Institutes Monday, 26th July 2021
5. In-depth Train The Teacher (T3) Sessions for faculty who will be teaching IBM Specializations Tuesday, 27th July 2021
6. Weekly Student Counselling Digital Sessions for IBM Collaborated Education Institutes Every Week with effect from 3rd 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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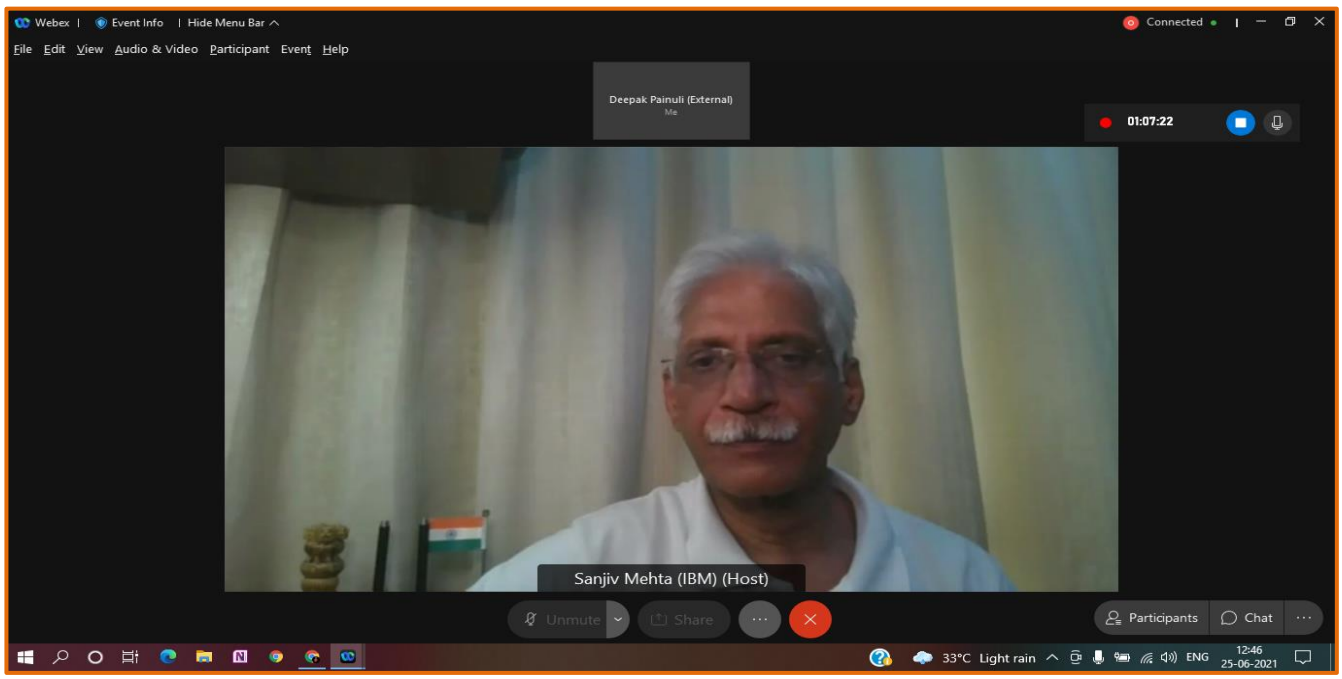
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Sanjiv Mehta (IBM) (Host)
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