

# SRI GVG VISALASKHI COLLEGE FOR WOMEN



Autonomous & Affiliated to Bharathiar University  
Accredited at **A<sup>+</sup> Grade by NAAC (4<sup>th</sup> Cycle)**

An ISO 9001:2015 Certified Institution

Udumalpet-642128



**Department of B.Sc (CS-AI) & B.Com (BA)**

## Report on FDP Session on “Industry 4.0: Technologies, outcomes & Future of Manufacturing”

### FDP Session Invitation



SRI G.V.G VISALAKSHI COLLEGE FOR WOMEN  
(AUTONOMOUS)

ACCREDITED AT A<sup>+</sup> GRADE BY NAAC (4<sup>TH</sup> CYCLE)

AN ISO 9001:2015 CERTIFIED INSTITUTION

UDUMALPET

**DEPARTMENT'S OF B.Sc (CS-AI) & B.Com (BA)**

**Organises**

### A Five Days Virtual FDP

on

### “INDUSTRY 4.0”:

**Technologies, Outcomes & Future of Manufacturing.**

By

**Mr. Deepak Dhanasekar**

EDI/MFT Consultant , Bengaluru



Date : 14.03.2022. to 18.03.2022.

Time: 10.00 a.m.to 12.30 p.m.

Registration Link: <https://forms.gle/2rsYcXoLE7GNn3PV6> Platform: Cisco webex

Organising Committee:

Dr. V.Anuratha,  
Head and Assistant Professor

Dr.J.Rajeswari  
Assistant Professor  
Department of B.Sc CS(AI)

Dr. J. Nimala  
Head and Assistant Professor  
Department of B.Com (BA)

Dr.N.Rajeswari  
Principal

**All are Cordially Invited!!!**

## FIVE DAYS VIRTUAL FDP ON INDUSTRY 4.0

"Technology, Outcomes future of Manufacturing with warm welcome Note by Dr. Nimala, HOD (B.LOML B.A.) the, FIVE day virtual (online) FDP session on "Industry 4.0 - Technology, Outcomes and Future of Manufacturing" was conducted from 14.03.2022 to 18.03.2022. The resource person for the five day FDP session is:

Mr. Deepak Dhanasekar

EDI / MFI Consultant,

Bengaluru.

The details of the topics covered in the FDP Day 1: Introduction to I4.0

Mr. Deepak Dhanasekar gave a detailed introduction to Industry 4.0 key factors. It covers the areas of Internet of Things (IOT), Internet of services (IOS), and cyber-physical system. He enlightened the industry 4.0 concepts in smart supply chain management.

Day 2: The digital transformation Journey

In the second day session, Mr. Deepak Dhanasekar delivered the FDP concerning the topic Digital transformation Journey in smart factories which is implemented in five steps.

1. Connecting devices
2. Collecting key data
3. Visualizing the outcome
4. Analyze everything
5. Optimizing the process

Day 3: Industry 4.0: Case studies.

In this session, Mr. Deepak Dhanasakar discussed the real time problem faced by the organization in processing manual data, real time data, raw material management, machinery maintenance alert and etc. He highlight the way to fix these lesson using IOT technology in industries.

Day 4: Industry 4.0: Case studies.

The fourth day session case studies covered the problem in the area of

- 1] Capitalizing New trends
- 2] Agile Attract top notch talent
- 3] Elimination of functional boundaries and demergering business top priorities

Day 5: Case studies, Quiz General discussion

Mr. Deepak Dhanasakar touched on the implementation of industry 4.0 at Tarmo industries, Coimbatore [in the area of inventory and supply chain management].

The session was followed with the quiz question raised by the Mr. Deepak Dhanasakar. participation answered the quiz and finally few faculty raised queries to the resource person regarding Industry 4.0 and got clarified.

The Vote of thanks for the session was rendered by Dr. V. Anuratha, HOD - B.Sc. (SCE) department.

Mr. Deepak Dhanasakar Head of the Department.

EDS/IMPT Consultant

Bengaluru

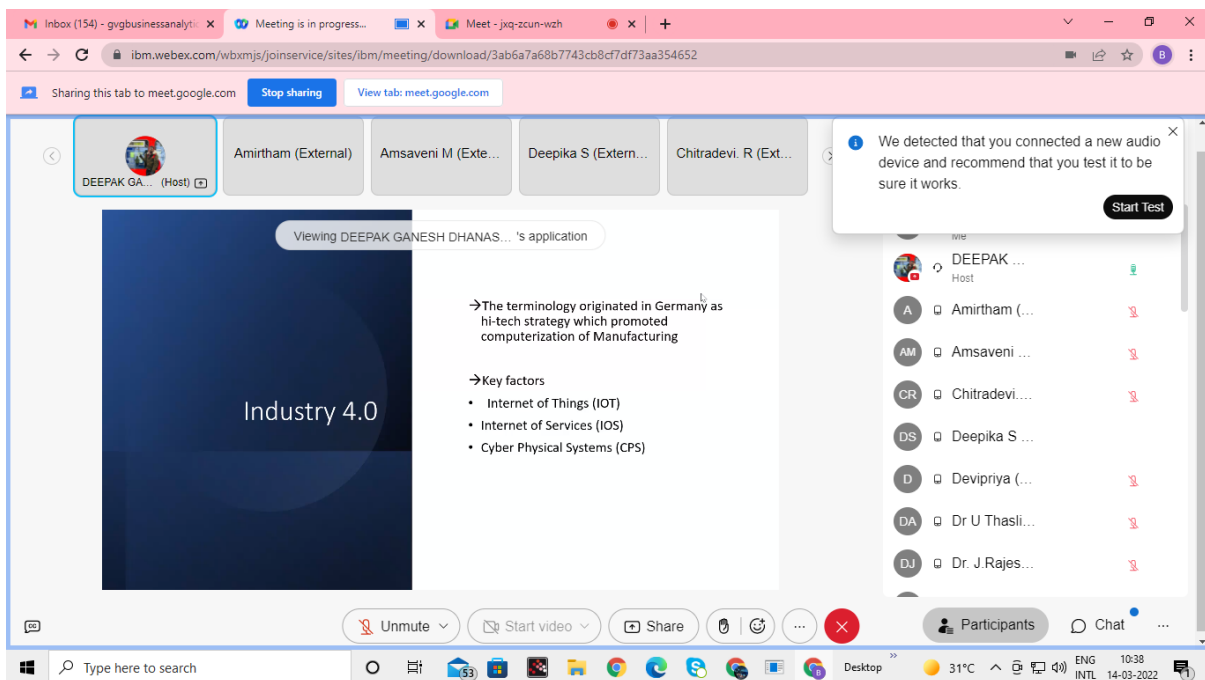
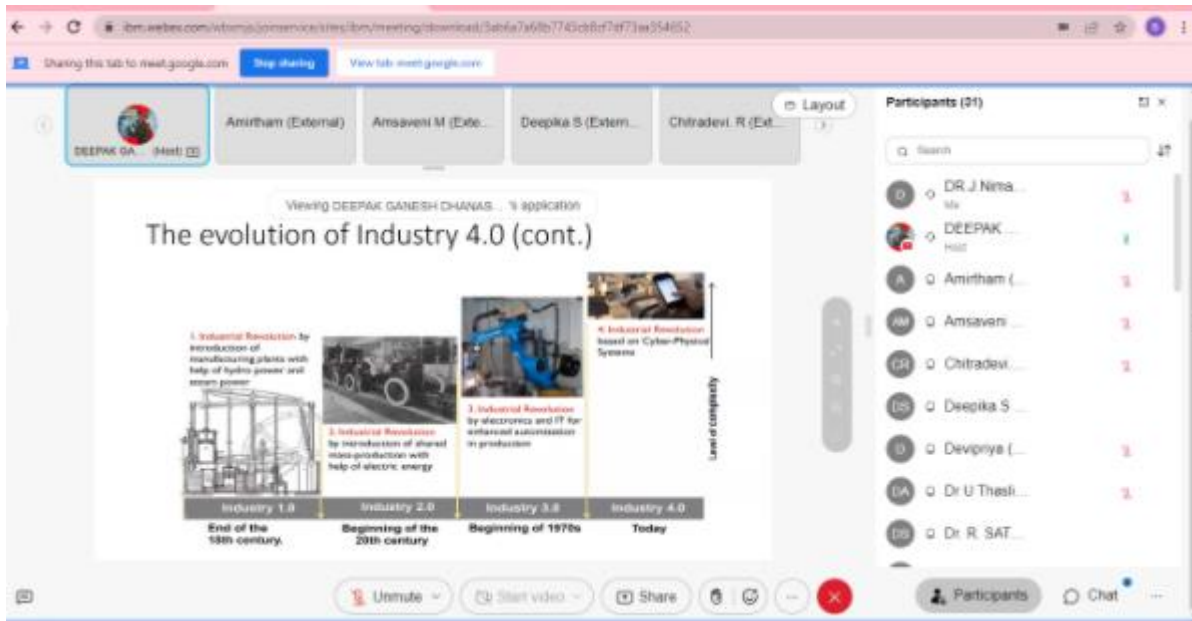
Principal Rajivani

Dr. N. S. Rajivani

PRINCIPAL  
28/11/20  
WALAKSHI COLLEGE  
AUTONOMOUS

# Photos

## Day 1 : Introduction to Industry 4.0



## Day 2: The Digital Transformation Journey, smart factories in five steps.

The screenshot shows a Zoom meeting interface. The main content is a slide titled "5 Optimize Processes". The slide text includes:

- 78% of manufacturing organizations surveyed plan to increase their investment in industrial IoT.<sup>9</sup>
- IBM's Watson can help you develop manufacturing strategies and onboard employees.
- End goal: Optimize digital and human processes to create smart factories.

At the bottom of the slide, it says: "Industry 4.0 has arrived: Empower intelligence on demand and drive digital transformation with IBM's Watson for Manufacturing.<sup>9</sup> Get the rest of the story at IBM.com."

The meeting interface shows the host DEEPAK GA... and several participants: Dr. M.Radha (External), Devipriya (External), Deepika S (External), and Amsaveni M (External). The participants list on the right shows 25 participants.

The screenshot shows a Zoom meeting interface. The main content is a slide titled "What Emerging trends in Auto and process industries?". The slide is divided into two sections:

- The New Agenda**
  - Industry Digitalization / Industry 4.0
  - Further integrate IIOT / cyber security
  - Engage / empower employees
  - Product Innovation
    - Higher margin / connected products
    - Develop new materials & applications
  - Reinventing end customer experience - B2B2C
  - Create new sources of revenue
- Traditional Agenda**
  - Cost reduction & improving customer service
  - Improve efficiency
    - Production optimization
    - Supply chain
    - Logistics
  - Streamline IT
    - ERP implementation
    - Focus on core business
  - Outsourcing non-core activities

The slide also features images of factory workers and machinery. The meeting interface shows the host DEEPAK GA... and several participants: Dr. M.Radha (External), Devipriya (External), Deepika S (External), and Amsaveni M (External). The participants list on the right shows 25 participants.

# Day 3: Industry 4.0 –Case studies, edge analytics solution control hierarchy, Best practices for industry 4.0 security.

The screenshot shows a Zoom meeting interface. At the top, there are browser tabs for 'gmail login - Search', 'Industry session 4.0 - GVG Colle...', and 'Meeting is in progress...'. The address bar shows the URL: <https://ibm.webex.com/wbxmjs/joinservice/sites/ibm/meeting/download/3ab6a7a68b7743cb8c7df73aa354652>. The meeting title is 'Meeting Info'. The participant list includes: DEEPAK GA... (Host), Amsaveni M (Ext...), Devipriya (External), Dr. R. SATHYA (Ex...), Dr.J.Nimala (Exter...), and Dr.J.Rajeswari (Ex...). The main content is a slide titled 'Viewing DEEPAK GANESH DHANASE... 's screen' with the subtitle 'ISA95 control hierarchy'. The slide features a blue pyramid diagram with five levels:

- Level 4**: Business processes and production scheduling
- Level 3**: Operational information and production control
- Level 2**: Monitoring, supervision, alarm management, automation, etc.
- Level 1**: Process control, direct control, system control
- Level 0**: Factory floor

At the bottom of the meeting window, there are controls for 'Unmute', 'Start video', 'Share', and 'Participants'. The Windows taskbar at the very bottom shows the search bar and system tray with the time 10:39 and date 16-03-2022.

The screenshot shows a Zoom meeting interface, similar to the one above. The browser tabs and address bar are identical. The meeting title is 'Meeting Info'. The participant list is the same. The main content is a slide titled 'Viewing DEEPAK GANESH DHANASE... 's screen' with the subtitle 'Minimum viable product method overview'. The slide features a waterfall-style diagram showing the stages of the Minimum Viable Product (MVP) method:

- Define value & user value** (blue box)
- Validate data/content** (pink box)
- Develop analytic approach** (blue box)
- Assess assumptions** (pink box)
- Design and develop scenario/sub-actor models** (blue box)
- Evaluate analytical tools and methods** (pink box)
- Develop analytical workflows** (blue box)
- Set up management and governance** (pink box)
- Analyze results and use system** (blue box)

Below the diagram, there are three main phases with durations:

- Data content discovery**: 3 to 4 weeks
- Model & visual development**: 3 to 4 weeks
- Pilot proof of value**: 3 to 4 weeks

At the bottom of the meeting window, there are controls for 'Unmute', 'Start video', 'Share', and 'Participants'. The Windows taskbar at the very bottom shows the search bar and system tray with the time 10:40 and date 16-03-2022.

# Day 4: Case Studies

This screenshot shows a Zoom meeting interface. The main window displays a presentation slide with the following text: "Capitalize on **new trends**", "Be more **agile**", "Attract and retain **top-notch talent**", "Eliminate functional **boundaries**", and "Deliver on your business's **top priorities**". The slide is titled "Viewing DEEPAK GANESH DHANAS... 's screen". The meeting controls at the bottom include "Unmute", "Start video", "Share", and a red "X" button. The top of the browser shows several tabs, including "Meeting is in...". The right sidebar shows a list of 17 participants, including "Dr.V.Anurat...", "DEEPAK G...", "Business A...", "Devipriya (...)", "Dr. J.Rajes...", "Dr.J.Nimala...", "Elakkiya (E...", "GOKILA V (...)", "Hema Lath...", and "K.ushadevi...". The system tray at the bottom right shows the time as 11:16 on 17-03-2022.

This screenshot shows a Zoom meeting interface. The main window displays a presentation slide with an isometric illustration of a warehouse layout. The slide is titled "Viewing DEEPAK GANESH DHANAS... 's screen". The meeting controls at the bottom include "Unmute", "Start video", "Share", and a red "X" button. The top of the browser shows several tabs, including "Meeting is in...". The right sidebar shows a list of 17 participants, including "Dr.J.Nimala...", "Elakkiya (E...", "GOKILA V (...)", "Hema Lath...", "K.ushadevi...", "karthika R (...)", "parameswa...", "R.Visalaksh...", "Rajanandhi...", and "Sankara M...". The system tray at the bottom right shows the time as 11:02 on 17-03-2022.

## Day 5: Case Studies and Quiz discussion

This screenshot shows a Zoom meeting interface. The main video feed displays a man wearing glasses and a high-visibility vest, standing in a factory or industrial environment. The meeting controls at the bottom include 'Unmute', 'Start video', 'Share', and 'Participants'. The participants list on the right shows 9 participants, including the host DEEPAK G... and several other attendees.

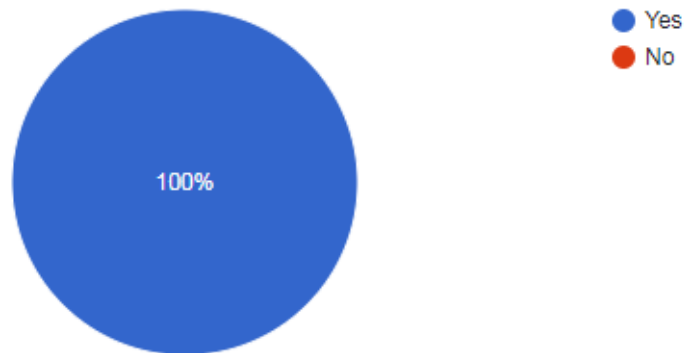
This screenshot shows a Zoom meeting interface with a slide displayed. The slide is titled 'Case 9 - Big data' and features a link to a YouTube video: 'How Amazon's Algorithm Gets You to Spend Money | Big Think - YouTube'. The meeting controls at the bottom are visible, and the participants list on the right shows 15 participants, including the host DEEPAK GA... and several other attendees.



## Feedback Analysis

Was the FDP Session is useful for all the five days

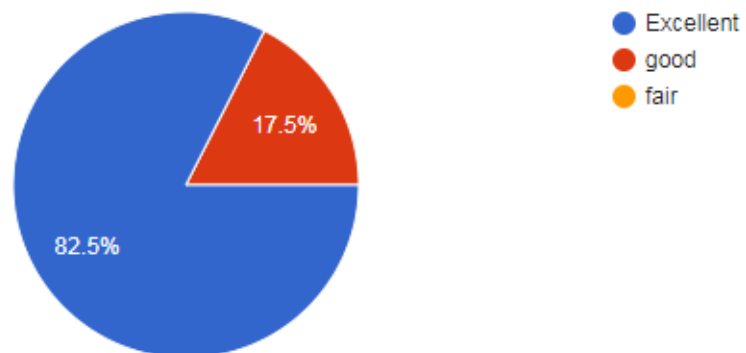
40 responses



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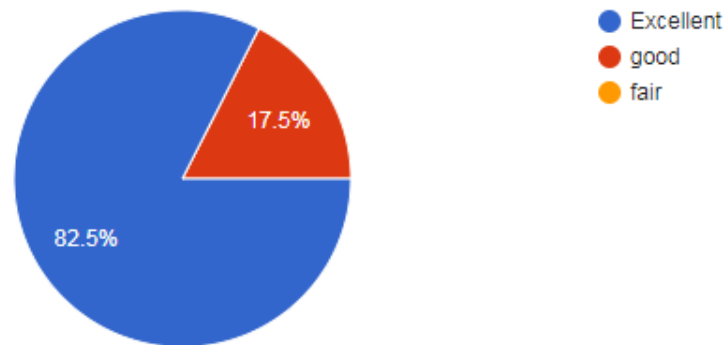
Content of the FDP Session was informative for all the five days

40 responses



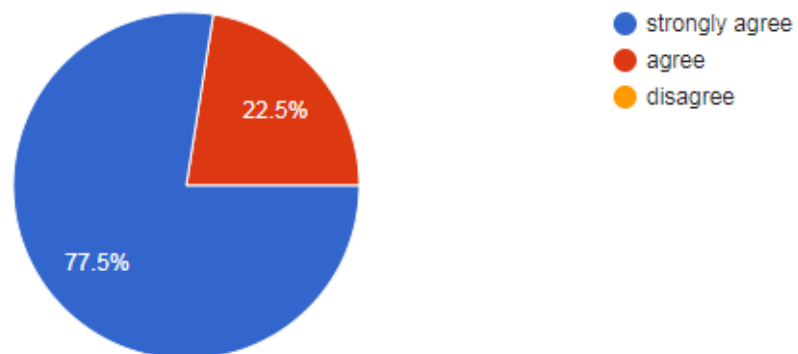
Delivery of the content by the resource person for all the five days is

40 responses



Did the FDP Session gave you new knowledge and ideas for all the five days

40 responses



## List of Participants

| <b>Name</b>        | <b>Designation</b>                        | <b>Department</b>                               |
|--------------------|---|---|
| Dr.M.Amsaveni      | Assistant Professor                       | Commerce  |
| R ABARNA SRI       | Assistant professor                       | Computer science                                |
| Deepika S          | Assistant Professor                       | Physics   |
| Gokila.V           | Assistant Professor                       | Computer Science                                |
| Manjuladevi.V      | Assistant Professor                       | Computer Applications                           |
| PARAMESWARI A      | Assistant Professor and Head              | Commerce (CA)                                   |
| Ms.D.Madhubharathi | Assistant Professor                       | Department of Commerce SF                       |
| Pavithra S         | Assistant Professor                       | Commerce with e-Commerce                        |
| Mrs.S.Hemalatha    | Assistant Professor                       | Commerce (CA)                                   |
| K. Kowsalya        | Assistant Professor                       | Economics with Logistics and Freight Management |
| Theetchiga B       | Assistant professor                       | Computer science                                |
| Dr.R.Rajini        | Associate Professor                       | Economics                                       |
| Dr.D.Manimozhi     | Assistant Professor                       | Economics                                       |
| Dr.M.Radha         | Associate Professor of Economics and Head | Economics                                       |
| K.Manimekalai      | Head & Assistant Professor                | Computer Applications                           |
| Dr. J.Rajeswari    | Assistant Professor                       | Computer Science (Artificial Intelligence)      |
| Shobana S          | Associate Professor and Head              | Computer Science                                |
| Dr.U.Thaslim Ariff | Assistant Professor                       | Business Administration                         |
| Karthika R         | Assistant Professor                       | BBA (CA)  |
| Chitradevi.R       | Assistant Professor                       | Chemistry                                       |
| Sathyapriya N      | Assistant professor                       | Computer science                                |
| Dr. V.Anuratha     | HOD                                       | Artificial intelligence                         |
| Rajanandhini S     | Assistant Professor                       | Commerce with e-Commerce                        |
| Sasikala B         | Assistant Professor                       | Computer Science                                |
| PL.Amirtham        | Assistant professor                       | BBA CA  |
| Dr.Dhanalakshmi L  | Assistant Professor                       | Economic with Logistics and Freight Management  |
| R.Visalakshi       | Assistant Professor                       | Business Administration                         |

|                       |                              |                                       |
|-----------------------|------------------------------|---------------------------------------|
| Mrs.R. Visalakshi     | Assistant Professor          | Business Administration               |
| Dr. A. Elakkiya       | Assistant professor          | Computer science                      |
| Manjula T             | Assistant professor          | Sri GVG Vishalakshi college for women |
| Ms.P.Elakkiya         | Assistant Professor          | B.Com(e-Commerce)                     |
| DEVIPRIYA M           | Assistant Professor and Head | Commerce e-commerce                   |
| Mrs.S.Hemalatha       | Assistant Professor          | Commerce (CA)                         |
| Dr.M.Amsaveni         | Assistant Professor          | Commerce                              |
| Ms.D.Madhubharathi    | Assistant Professor          | Department of Commerce SF             |
| Kasthuri k            | Assistant professor          | B.Com(CA)                             |
| JANNATHUL PRITHOUSE S | Assistant Professor          | Department of Commerce SF             |
| Dr.P.Jayamary         | Assistant Professor          | Commerce                              |
| R. Visalakshi         | Assistant Professor          | Business Administration               |
| Dr.J.Nimala           | Head of the department       | B.Com (Business Analytics)            |