



### A Seminar on

# Industry 4.0: Artificial intelligence Dr Karhe R.R. Electrical Engg

### **Activity Report**

| Academic Year                           | 2024-25                   |
|---|---------------------------|
| Program Driven by                       |                           |
| Quarter                                 | III                       |
| Program / Activity Name                 | Capacity Building Program |
| Program Type                            |                           |
| Program Theme                           | Innovation and startups   |
| Start Date                              | 08-03-2025                |
| End Date                                | 08-03-2025                |
| Duration of the Activity (in Mins)      | 60                        |
| Number of Student Participant           | 50                        |
| Number of Faculty Participant           | 70                        |
| Number of external Participant          |                           |
| Expenditure Amount in Rs.               |                           |
| Any Remark                              |                           |
| Mode of Session Delivery                | Offline                   |
|   |                           |
|   |                           |
| Objective                               |                           |
| Benefit in terms of Learning / Skills / |                           |
| Knowledge obtained                      |                           |
| Feedback                                |                           |
| Video url (mp4)                         |                           |
| Photograph 1 (jpg)                      | Attached                  |
| Photograph 2 (jpg)                      | Attached                  |
|   |                           |
| Overall report of the Activity (pdf)    | As given below            |

Dr. P. H. Zope Convener IIC





Report on Seminar: "Industry 4.0 – Artificial Intelligence"

**Organized by:** Department of Electrical Engineering

Speaker: Dr. R.R. Karhe

**Topic:** Industry 4.0 and Artificial Intelligence

#### Seminar Report on Industry 4.0: Artificial Intelligence



#### **Abstract**

Industry 4.0 represents the fourth industrial revolution, integrating advanced technologies such as Artificial Intelligence (AI), the Internet of Things (IoT), Big Data, and robotics to create smart manufacturing systems. This report focuses on the role of AI in Industry 4.0, emphasizing its applications, advantages, challenges, and future scope. AI drives intelligent automation, predictive analytics, and decision-making, transforming industries through efficiency, customization, and innovation.

#### 1. Introduction

Industry 4.0 marks a significant shift from traditional manufacturing to a connected, intelligent, and automated industrial environment. Artificial Intelligence plays a pivotal role in enabling machines to





simulate human intelligence processes. From smart factories to AI-driven supply chains, industries are leveraging AI for optimization, productivity, and competitiveness.

#### 2. Key Technologies in Industry 4.0

- Artificial Intelligence (AI)
- Internet of Things (IoT)
- Cyber-Physical Systems (CPS)
- Big Data and Analytics
- Cloud Computing
- Autonomous Robotics
- Augmented and Virtual Reality

#### 3. Role of AI in Industry 4.0

#### 3.1 Smart Manufacturing

Al-powered machines can self-optimize, detect faults, and make autonomous decisions. Predictive maintenance using machine learning reduces downtime and improves equipment lifespan.

#### 3.2 Quality Control

Computer vision and deep learning algorithms identify defects in real time, ensuring high-quality standards.

#### 3.3 Supply Chain Optimization

Al analyzes large datasets to forecast demand, manage inventory, and optimize logistics.

#### 3.4 Human-Robot Collaboration

Al-driven robots assist humans in tasks requiring precision, strength, or hazardous conditions, enhancing workplace safety and efficiency.

#### 3.5 Decision Support

Al systems analyze operational data to assist managers in making faster and more accurate decisions.





#### 4. Benefits of AI in Industry 4.0

- Improved efficiency and productivity
- Enhanced product quality
- Reduced operational costs
- Real-time monitoring and diagnostics
- Customization and flexibility in manufacturing

#### 5. Challenges

- High implementation costs
- Data privacy and cybersecurity risks
- Skill gap and workforce displacement
- Complexity in integration with legacy systems
- Ethical concerns in autonomous decision-making

#### 6. Future Scope

As AI continues to evolve, its integration with other Industry 4.0 technologies will deepen. AI-enabled factories will become more adaptive and self-regulating. Research into explainable AI, ethical standards, and human-centered automation will define the future industrial landscape.

#### 7. Conclusion

Artificial Intelligence is a cornerstone of Industry 4.0, enabling unprecedented levels of automation and intelligence. While there are challenges, the potential benefits far outweigh the drawbacks. Successful adoption requires a balanced approach that includes technological advancement, workforce development, and ethical considerations.

















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| 1    | Dr. P.A. Shirule                 | Dept.      |             |            |      |
| 2    | Dr. F.I. Chavan                  | Civil      | 1000        | -91        | 07   |
| 3    | Dr. Sonali B. Patil              | Civil      |             |            | 04   |
| 4    | Mr. J.N. Kale                    | Civil      | 88944       | SERH       | . 03 |
| 5    | Ms.Jyoti R.Mali                  | Civil      | The         | 1 1 A 2    | 03   |
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| _    | Mr. Pramodgiri B. Gosavi         | Computer   | America     | tameto-    | 02   |
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| 2    | Mr. Krunal Chadrashekhar Pawar   | Computer   | 1           | 14         | 03   |
| 3 1  | Ms. Pooja Mukundrao Khandar      | Computer   |             |            | 63   |
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| SN  | Name of faculty Member    | Dept.                    | 12121156   | 27/03/15    |       |
| 34  | Mr. M.Mujtahid Ansari     | Electrical               | D. A.  | 10          | 25    |
| 35  | Dr. Suhas M. Shembekar    | Electrical               | 911  | COA T       | 04    |
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| 36  | Dr.Rajesh R Karhe         | Electrical               | 77   | Oka.        | 04    |
| 37  | Mr. Muqeem Khan           | Electrical               | -/   | This        | 04    |
| 38  | Mr. Tanveer Khatik        | Electrical               | K  | _           | 04    |
| 39  | Mr. Vijay Abaji Shinde    | Electrical               | (M)  | Ont         |       |
| 40  | Dr. M.P. Deshmukh         | E&TC                     | 2  | 25 - 1      | 04    |
| 41  | Dr. V.M. Deshmukh         | E&TC                     | 1_   | DOUVE       |       |
| 42  | Dr. N.M. Kazi             | E&TC                     | 63   | W.          | 04    |
| 43  | Dr. Atul H. Karode        | E&TC                     | IME.   | CHE X       | . 04  |
| 44  | Mr. Sunil K.Khode         | - Lander                 | 7  | -           | 04    |
| 45  | Ms.Rajashri B Patil       | E&TC                     | 1860my   |             | 03    |
| 46  | Dr. P.G. Damle            | E&TC                     | BARRET   | (Fileti)    | که    |
| 47  | Mr. N. K. Patil           | Mechanical               | the  | -           | 04    |
| 48  | Dr. K.Shrivastav          | Mechanical               | V 1  | NO.         | 04    |
| 19  | Dr. Devendra B. Sadaphale | Mechanical<br>Mechanical | De Balc  | 00-         | 02    |
| 50  | Dr. P. M. Solanki         | Mechanical               | Melali   | March Order | 04    |
| 51  | Dr. Ajay R. Bhardwaj      | Mechanical               |  | 1 70/28     | 04    |
| 52  | Dr. Dipak C. Talele       | Mechanical               | 9000   | 1.50        | 0     |
| 3   | Dr. Vijay R. Diware       | Chemical                 | The state of the s | 1000        | _ 0,5 |
| 4   | Dr. S. A. Thakur          | Chemical                 |  | 2007        | 04    |
| 5   | Mr. V. P. Sangore         | Chemical                 |  | 50          | 03    |
| 6   | Mrs. Sarika S. Pawar      | Chemical                 | 150-   | X           | 06    |
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| _   | Date and Sign                    |            | 08/02/25  | 15/2/25    | 08/03/2      |
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| SN  | Name of faculty Member           | Dept.      | 20/22/23  | 1143       |              |
| 1   | Dr. P.A. Shirule                 | Civil      | Khine     | Shirt-     | ~            |
| 2   | Dr. F.I. Chavan                  | Civil      | A Comment |            | 1>           |
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| 2   | 8 Ms. Tejashri Anil Patil        | Computer   | _         | -          | -            |
| 2   | 9 Ms. Prachi Pushkaraj Chaudhari | Computer   | -         |            | 1000         |
| 3   | 30 Ms. Utkarsha Prmod Narkhede   | Computer   | -         | _          | -            |
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| 100 | 33 Mr. V. S. Pawar               | Electrical | 1gold     | 4 Deloy    | = 10 - 10 th |





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| 34 | Mr. M.Mujtahid Ansari     |              |          | 10       | . 0       |
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| 40 | Dr. M.P. Deshmukh         | E&TC         | Dan /    | NOO A    | Nas R     |
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| 43 | Dr. Atul H. Karode        | E&TC         | land-    | JmL      | 200       |
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| 45 | Ms.Rajashri B Patil       | E&TC         | 1        | 65.      | - Country |
| 46 | Dr. P.G. Damle            | Mechanical   | Paul     | Lann     | Viene     |
| 47 | Mr. N. K. Patil           | Mechanical   | KU RI    | NO IV    | dies      |
| 48 | Dr. K.Shrivastav          | Mechanical   | VK:      | NO.      | 17.1      |
| 49 | Dr. Devendra B. Sadaphale | Mechanical   | Darsir   | Mandare. | Kurk      |
| 50 | Dr. P. M. Solanki         | Mechanical   | Chilar   | all Jak  | ARCKUU I  |
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| 52 | Dr. Dipak C. Talele       | Mechanical   | 1000     | XOXIO    | Annu-     |
| 53 | Dr. Vijay R. Diware       | Chemical     | -        | TOP      |           |
| 54 | Dr. S. A. Thakur          | Chemical     | a-       | 8_       | 61,       |
| 55 | Mr. V. P. Sangore         | Chemical     | 14       | V        | 5         |
| 56 | Mrs. Sarika S. Pawar      | Chemical     | 398      |          | 250       |
| 57 | Mrs. Ruchita S. Naik      | Chemical     | 0-       | A        | 0         |
| 58 | Dr. Sandip S. Patil       | First Year   | 27/W     | 4/1/2    | Photo     |
| 59 | Dr. K. S. Patil           | First Year   | 111      | W        | 400       |
| 60 | Dr. Sunita S. Patil       | First Year   | Sahl     | Goll     | First.    |
| 61 | Dr. Prashant N. Ulhe      | First Year   | MODI     | EM I     | BA        |
| 62 | MR Amol Chandrakan Wani   | First Year   | T.       | 1        | 1         |
| 63 | Ms. Priti Ramesh Sharma   | First Year   | _        | -        | 010       |
| 64 | C.U. Nikam                | First Year   |          | -        | 14        |





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| N      | Name of faculty Member          | Dept.         | 08/02/25  | 15 2 2025     | 08/03/25    |
| 55     | Mr. Pravin D. Patil             | First Year    | 10        | 0             |             |
| 66     | Ms. Deepmala I. Desai           | First Year    | D. W.     | 15.3          | 10          |
| 67     | Mr.Mahendra B. Patil            | First Year    | Vie       | No.           | 1           |
| 68     | Ms. Meera Prassan Kulkarni      | First Year    | . mode    | -             | ot no bloo  |
| 69     | Ms.Dhanashree Shashikant Tayade | First Year    | Spanne    |               | Milair      |
| 70     | Ujawalsing T. Patil             | First Year    | - 9 -     |               | 1           |
| 71     | Mrs. Nancy Sawhney              | First Year    | tar       | Ray           |             |
| 72     | Ms. Tanuja Y.Chouhan            | First Year    | -         | -             | 7           |
| 73     | Mrs. Anjali Darshan Patil       | First Year    | -         |               | Jany        |
| 74     | Ms.Jayshree R. Tayade           | First Year    | Per I     | - CE 1        |             |
| 75     | Mrs. Puja Mayur Malu            | First Year    | Villian   | The lit       | Sympa       |
| 76     | Mr. Dashrath U. Chaudhari       | 2000000000000 |           | Mary          | May         |
| 77     | Mr. Sachin Topalu Bhalerao      | First Year    | 2011      | 107           | Dow         |
| 78     |                                 | First Year    | 1         | 8344          | Solve .     |
| 79     |                                 | MBA           | m         | _             | 700         |
| 80     |                                 | MBA           | (6)       | -             | (Ka)        |
| -      |                                 | MBA           | (F)       | -             | ACC         |
| 81     | THO DIGITAL T. JOSHI            | MBA           | BBI       | (8/37)        | 6000        |
| 82     | ross sauna prajania riusain     | MBA           | Same      | 5 January     | Jacon       |
| 83     | Mr. Rohan Suresh Patil          | MBA           |           | P.P. IRO      | (D) (D) to  |
| 84     | Ms. Vrushali Dinkar Sonawane    | MBA           | 158       | - 0.68        | PEST KIN    |
| 85     | Dr. Puri Dinesh Dagadu          | MCA           | (1) 20%   | (D)%          | (780)       |
| 86     | 6 Ms. Sapana Ananrao Fegade     | MCA           | Tolu-     | 124           | 1012        |
| 87     | 7 Mr. Aslan Shaikh              | MCA           | J. Shing  | · K           | -           |
| 88     | Ms. Dhanshee Rajendra Shinde    | MCA           | V35"      | XI Kakes      | -           |
| 84     | 9 Ms. Chetana Mohan Kawale      | MCA           | Covarale  | - Counte      | Caraca      |
| 91     | Ms. Vishakha Yadorao Pande      | MCA           | Afmile    | Mande         | 1 Albade    |
| 9      | 1 Ms.Bhagyashri Suresh Patil    | MCA           | 1.1       | -             | H           |
| 9      | 2 Ms. Reeta Vinod Patil         | MCA           | + 127     | (Single)      | Pipati      |
| 9      | 3 Dr. Sudhir, S. Patil          | Library       | 0         | at a war      | 12160       |
| 9 0.07 |                                 | Library Civil | Se Chaper | Parties Child | ORALI 18 OF |