

CIRCULAR



ARKA JAIN
University
Jharkhand

Circular

Ref. No. AJU/AD/ENGG/147/22-23


Date: 05.05.2023

The school of Engineering Notify the following schedule for Value Added Course.

Course Name	"Industry 4.0 The Future of Industry"
Instructor Name	Dr. Viranshu Kumar, Dr. Kuldeep Sahu, Mr. Mukesh Kumar Sharma
Commencement Date	10/05/2023
Timing	1:00 PM to 2:30PM
Venue	Seminar Hall, 1st floor, Baudhayana Block

The course is open for all the Engineering students of ARKA JAIN University Jamshedpur. The details are mentioned in annexure. For any query kindly contact with Course Coordinator Dr. Viranshu Kumar

Kindly register with following Link: <https://forms.gle/SJvhfGvgJNsgD3Gd9>


Dr. Ashwin Kumar
Asst. Dean
School of Engineering & IT
ARKA JAIN University,
Jharkhand
Asst. Dean
School of Engineering & IT
ARKA JAIN University

Copy for information & necessary action, please:-

PS to the Vice Chancellor
PS to The Director
PS to The Registrar
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In Charge Web Service for Website
Notice Board
Guard File

Value Added Course: Industry 4.0: The future of Industry

Date of Event	10.05.2023
Name of the Event	Industry 4.0: The future of Industry (Online)
Type of the Event	Skill Development
Conducted by	School of Engg. & IT
No. Of Participants	62

OBJECTIVE:

The objective of a value-added course on Industry 4.0 is to equip students and professionals with the knowledge and skills needed to thrive in the era of smart manufacturing and digital transformation. The course covers key concepts such as IoT, AI, big data, automation, robotics, cyber security, and cloud computing. It aims to bridge the gap between traditional industries and modern technological advancements, fostering innovation, efficiency, and productivity. By understanding Industry 4.0 principles, participants can enhance their employability, adapt to evolving industry demands, and contribute to the development of intelligent, data-driven, and interconnected industrial ecosystems.

DETAILS:

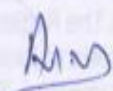
Annexure

Value Added Course**Short Term Certification Course on "Industry 4.0 - The Future of Industry"****Course Content:**

This course will deliver from basic to advance in the domain of Industry 4.0: Prerequisite, Challenges and probable solutions for both as career or Entrepreneurship. The objective of this course is to remain competitive in today's fast-changing landscape, manufacturers must focus on innovation, provide meaningful experiences for customers, and expand business models to include direct-to-the consumer e-commerce and value-add services. Providing more, while spending less, requires advanced technology. Adopting Industry 4.0 practices can be a true game changer for manufacturers. It can give you access to advanced data insights into multiple aspects of your manufacturing business. These insights can be used to measure performance, proactively identify problems, optimize supply chain processes, and more. Industry 4.0 practices can also be leveraged to improve and grow your business, such as by accelerating innovation, improving the customer experience, and expanding business models. At our Industry 4.0 strategy is designed to empower manufactures to tap into these capabilities by helping you intelligently connect people, processes, and things to achieve meaningful value and desired outcomes. Because these capabilities are built directly into our cloud-based solutions and tools, they're scalable, agile, and easy to use. They're designed to help streamline processes, optimize productivity, improve visibility, and foster collaboration. As a result, you'll be able to break down silos, spur innovation, enhance customer engagement, and provide your customers with more meaningful experiences.

Module 1: Industry 4.0 - What Is It?

- Industry 4.0: origin and key understandings
- Industry 4.0 design principles
- Decentralization
- Real-time capability


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Module 2: Industry 4.0: Current Status and Future Trends

- The Industry 4.0 pillars
- The 5G network comprises a software-defined architecture
- Transforming a small and medium enterprises (SMEs) into Industry 4.0
- Automation and improving of process

Module 3: Industry 4.0 Technologies:

- Autonomous robots and vehicles,
- Simulation, Horizontal and vertical system integration,
- Additive Manufacturing,
- Mechatronics, CAD/CAM Technology, Autonomous vehicle

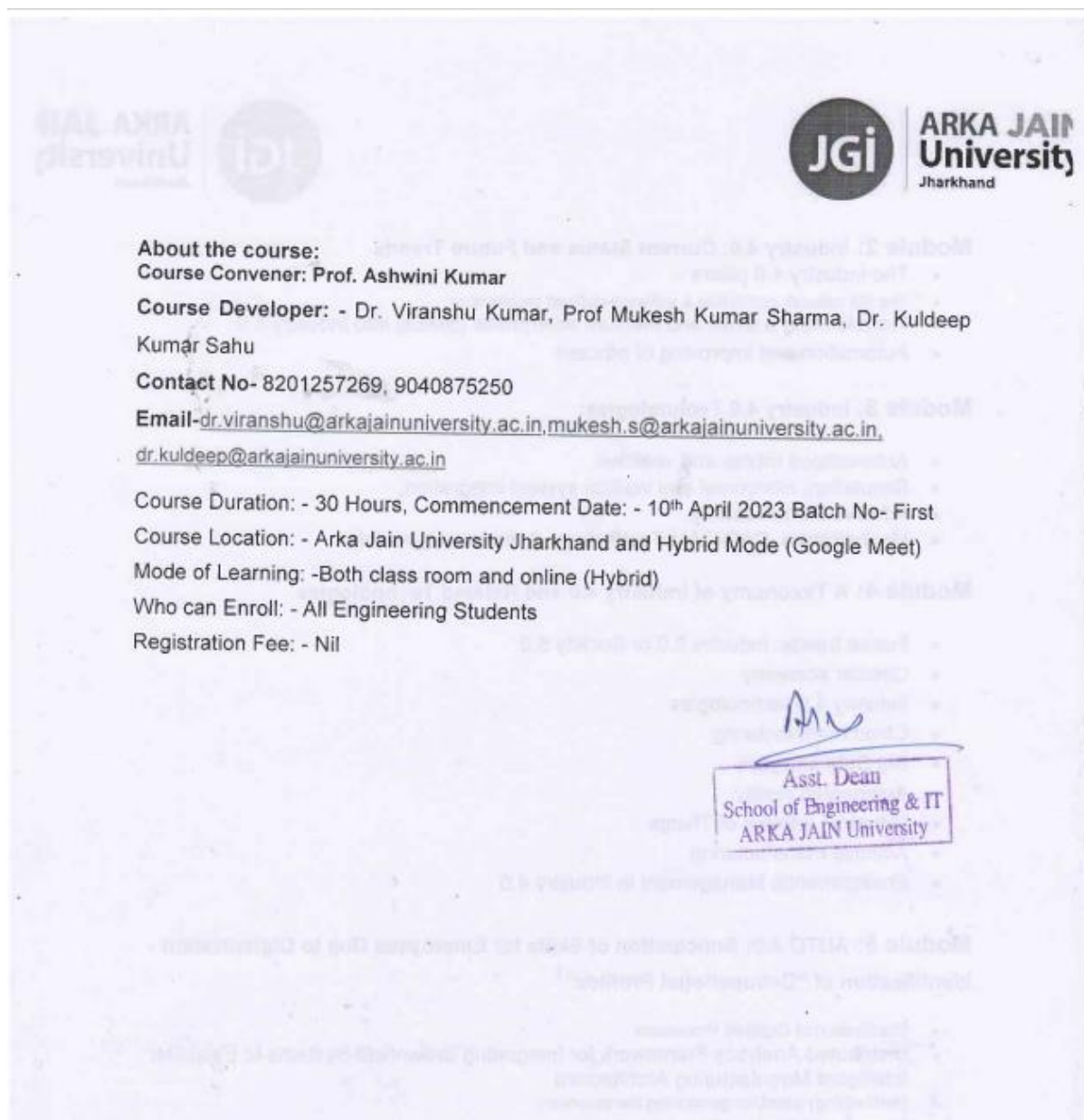
Module 4: A Taxonomy of Industry 4.0 and Related Technologies

- Future trends: Industry 5.0 or Society 5.0
- Circular economy
- Industry 4.0 technologies
- Cloud manufacturing
- Big Data analytics
- Augmented reality
- Industrial Internet of Things
- Additive manufacturing
- Environmental Management in Industry 4.0

Module 5: AUTO 4.0: Anticipation of Skills for Employees Due to Digitalization - Identification of "Occupational Profiles"

- Stabilization of Digitized Processes
- Distributed Analytics Framework for Integrating Brownfield Systems to Establish Intelligent Manufacturing Architecture
- Methodology used for generating the taxonomy
- Taxonomy of industry 4.0

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TAKEAWAY (OUTCOMES):

A Value-Added Course on Industry 4.0 equips participants with essential knowledge and skills related to smart manufacturing, automation, IoT, AI, and data analytics. By completing this course, learners gain insights into cyber-physical systems, predictive maintenance, digital twins, and real-time data processing. They develop hands-on experience with advanced technologies, improving their problem-solving and decision-making abilities in an industrial setting. This course enhances employability by bridging the gap between academia and industry demands. Graduates become proficient in leveraging Industry 4.0 principles to optimize processes, increase efficiency, and drive innovation, making them valuable assets to modern, technology-driven industries.

POSTER OF THE EVENT



Dept. of Engineering
Organizes —————
Short Term Certificate
Value Added Course on
INDUSTRY 4.0 -
The Future of Industry

May 10th, 2023

Convener : Dr. Ashwini Kumar
Coordinator :
Dr. Viranshu Kumar, Prof. Mukesh Kumar Sharma,
Dr. Kuldeep Kumar Sahu

Resource Persons

				
Dr. Bagesh Bihari Asst. Professor, Dept. of Mechanical Engineering, Ramgarh Engineering College, Ramgarh	Mr. M. Prithvi Raj Asst. Professor, Dept. of Mechanical Engineering Anil Neerukonda Institute of Technology and Sciences	Dr. Viranshu Kumar Asst. Professor, Dept. of Engineering ARKA JAIN University, Jamshedpur, Jharkhand	Mr. Mukesh Kumar Sharma Asst. Professor, Dept. of Engineering ARKA JAIN University, Jamshedpur, Jharkhand	Dr. Kuldeep Kumar Sahu Asst. Professor, Dept. of Mechanical Engineering ARKA JAIN University, Jamshedpur, Jharkhand

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PHOTOS OF THE EVENT





LIST OF PARTICIPANTS

ATTENDANCE SHEET (Compiled Sheet)

Industry 4.0 “The Future of the Industry”				
Sl. No.	Enrollment No/Roll No	Course Year	Student Name	Attendance %
1.	AJU/210135	2023	ANKUSH DHAR	93
2.	AJU/211750/027	2023	Rohit Ghosh Dastidar	100
3.	118/AJU/221403	2023	Ritesh Kumar	100
4.	86/AJU221156	2023	Pappu Yadav	80
5.	AJU/220334	2023	Sagar Malind	87
6.	Aju/210297	2023	Biraj Ram	80
7.	AJU/221306	2023	Yuvraj	93
8.	201161	2023	NEHAL PRASAD	87
9.	AJU/211901	2023	Vivek Raj Mahato	93
10.	BTME 033 / AJU 211776	2023	Sourav Gope	93
11.	BTME031/AJU211761	2023	Shobha Hembram	93
12.	71/ AJU221026	2023	Ankit Kumar Singh	93
13.	AJU/211834	2023	Avinash Kumar Verma	87
14.	AJU/220948	2023	Amar Das	87
15.	120/221429	2023	Akash Kumar	100
16.	38	2023	Bhaskar Singh Munda	93
17.	08/210827	2023	Rohit Kumar	93
18.	1325	2023	Saroj Kumar Rajak	93
19.	45	2023	Punit Kumar	93
20.	42/AJU/211808	2023	Abhay Kumar	100
21.	BTME-52/ AJU/200200	2023	MANISH KUMAR	93
22.	03/AJU/210389	2023	MD ARIF RAZA	93
23.	40/Aju/211806	2023	Aman Kumar Singh	93

24.	Aju/201333	2023	Saurav Prasad	93
25.	17/Aju/211542	2023	Ajit Mahto	87
26.	AJU/201204	2023	Sristy Sen	87
27.	210299	2023	Roshan Biswas Hembrom	87
28.	AJU/211739	2023	Deepak Prasad Mahato	93
29.	41/AJU/211807	2023	Kunal Karan	100
30.	(DEME-126)/(AJU/211511)	2023	SHASHI MAHATO	93
31.	BTME-028/ AJU- 211752	2023	Ayushman	93
32.	Aju/211780	2023	Randhir Kumar Gupta	100
33.	32/AJU211767	2023	PROSENJIT KUMAR PAUL	100
34.	AJU/211854	2023	PURAN BOIPAI	80
35.	052/AJU/201286	2023	Abhiman Thakur	87
36.	AJU/211825	2023	Shivam Pradhan	80
37.	BTME-059/AJU/211862	2023	Rohit Kumar Sharma	93
38.	AJU/221258	2023	Sheikh Imran	87
39.	14/AJU-211278	2023	Aman Nandi	93
40.	126.- AJU/221509	2023	PIYUSH KUMAR	93
41.	AJU/211836	2023	Ashwani Kumar Sinha	93
42.	13 / Aju_ 211207	2023	Vikash Kumar	93
43.	AJU/211745	2023	Ajay Mandal	87
44.	DEEE28/AJU/210769	2023	Nikhil Kumar	87
45.	48 AJU/220758	2023	Pankaj Kishore	100
46.	19 / AJU211587	2023	Abhishek Kumar	93
47.	AJU/211740	2023	Abhishek Mandal	93
48.	AJU/211785	2023	Rohit Kumar Mahato	93
49.	AJU/220499	2023	Nayansi Kumari	93
50.	AJU/221191	2023	Kaushal Kumar Jha	100
51.	DEME/97	2023	Shrawan Kumar	93
52.	69 / AJU/220736	2023	Md Danish	93
53.	Aju/211835	2023	Ak423232@Gmail.Com	93
54.	AJU/221981	2023	Nitish Prajapati	93

55.	AJU/221989	2023	SUNIL MAHATO	87
56.	20/AJU211626	2023	Chayan Mukherjee	87
57.	AJU/211810	2023	Adarsh Goswami	87
58.	AJU/211756	2023	ABHISHEK DAS	93
59.	33 Aju/200844	2023	Vijay Kumar Bera	100
60.	DEEE/01 AJU/210021	2023	Rohini Chatterjee	93
61.	AJU/211790	2023	GOURAV KUMAR SINGH	93
62.	DEEE/70/AJU/211577	2023	ADITYA KUMAR SHARMA	100

ATTENDANCE SHEET (Day wise Sheet)

Department of Engineering, School of Engineering & IT, ARKA JAIN University, Jharkhand Value added course on "Industry 4.0 The future of Industry" from May 10 th - 30 th , 2023. Attendance Sheet																	
S.no	DATE	10.5.23	11.5.23	12.5.23	13.5.23	15.5.23	16.5.23	17.5.23	18.5.23	19.5.23	20.5.23	22.5.23	23.5.23	24.5.23	25.5.23	26.5.23	27.5.23
	Name																
1.	Ankush Dhar	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
2.	Rohit Ghosh Dastidar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3.	Ritesh Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4.	Pappu Yadav	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A
5.	Sagar Mallind	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
6.	Biraj Ram	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
7.	Yuvraj	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
8.	Nehal Prasad	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
9.	Vivek Raj Mahato	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
10.	Sourav Gope	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
11.	Shobha Hembram	P	A	P	P	P	A	A	A	P	P	P	A	A	A	A	A
12.	Ankit Kumar Singh	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
13.	Avinash Kumar Verma	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
14.	Amar Das	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
15.	Akash Kumar	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
16.	Bhaskar Singh Munda	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
17.	Rohit Kumar	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P

17	Rohit Kumar	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
18	Saroj Kumar Rajak	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
19	Punit Kumar	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
20	Abhay Kumar	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
21	Manish Kumar	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P

22	Md Arif Raza	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A
23	Aman Kumar Singh	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A
24	Saurav Prasad	P	A	P	P	P	A	A	A	P	P	P	P	P	A	A	A
25	Ajit Mahto	P	A	P	P	P	P	A	A	P	P	P	P	P	A	A	A
26	Sristy Sen	P	A	P	P	P	P	A	A	P	P	P	P	P	A	A	A
27	Roshan Biswas Hembrom	P	A	P	P	P	P	A	A	P	P	P	P	P	A	A	A
28	Deepak Prasad Mahato	P	A	P	P	P	P	A	A	P	P	P	P	P	A	A	A
29	Kunal Karan	P	A	P	P	P	A	A	A	P	P	P	P	P	A	A	A
30	Shashi Mahato	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A
31	Ayushman	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A
32	Randhir Kumar Gupta	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A
33	Prosenjit Kumar Paul	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A
34	Puran Boipai	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A
35	Abhimanyu Thakur	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A
36	Shivam Pradhan	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A
37	Rohit Kumar Sharma	P	A	P	P	P	P	A	A	P	P	P	P	P	A	A	A
38	Sheikh Imran	P	A	P	P	P	A	A	A	P	P	P	P	P	A	A	A
39	Aman Nandi	P	A	P	P	P	P	P	P	P	P	P	P	A	A	A	A
40	Piyush Kumar	P	A	P	P	P	P	P	P	P	P	P	P	A	A	A	A
41	Ashwani Kumar Sinha	P	A	P	P	P	P	P	P	P	P	P	P	A	A	A	A
42	Vikash Kumar	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A
43	Ajay Mandal	P	A	P	P	P	P	A	A	P	P	P	P	P	A	A	A
44	Nikhil Kumar	P	A	P	P	P	A	A	A	P	P	P	P	P	A	A	A
45	Pankaj Kishore	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A

46	Abhishek Kumar	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
47	Abhishek Mandal	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
48	Rohit Kumar Mahato	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P

48	Rohit Kumar Mahato	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
49	Navansi Kumari	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
50	Kaushal Kumar Jha	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
51	Shrawan Kumar	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
52	Md Danish	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
53	Ak423232@Gmail.Com	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A
54	Nitish Prajapati	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
55	SUNIL MAHATO	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
56	Chavan Mukherjee	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
57	Adarsh Goswami	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
58	ABHISHEK DAS	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
59	Vijay Kumar Bera	P	A	P	P	P	A	A	A	P	P	P	P	A	A	A	A
60	Rohini Chatterjee	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
61	GOURAV KUMAR SINGH	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
62	ADITYA KUMAR SHARMA	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P