




COLLEGE OF ENGINEERING BHUBANESWAR (COEB)
Plot No.1 (A), CNI Complex, Patia, Bhubaneswar – 751024, Odisha, India.
[AFFILIATED TO BPUT, ODISHA]
www.coeb.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING
ADD-ON COURSE : Smart Manufacturing for Industry 4.0

[Programme: B.Tech, Mechanical Engg.]
Semester: 5th


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Course Objectives:

- ❖ To impart basic idea in Industry 4.0.
- ❖ To provide students with good depth of knowledge of designing Industrial 4.0 Systems for various application.
- ❖ To create opportunity to expand their competitiveness further
- ❖ To understand the concept of future smart factories and the virtualization techniques and intelligent decision-making capabilities.

SYLLABUS

Total Lecture Hours: 40

MODULE 1:

(16 hours)

INDUSTRY 4.0: Concept, Globalization and emerging issues, The Fourth Revolution, LEAN manufacturing, Smart and connected business perspectives, Smart factories.
AUTOMATION: Programable Logic Controller (PLC) and its Programming software, Communication of different devices with PLC, Sensor, Smart Sensor, HMI design, Cyber Physical System – key components, ISA-95 architecture, CPS-5C architecture, Concept of Digit Twin

MODULE 2:

(16 hours)

COMMUNICATION: Protocols – MQTT, OPC UA, EtherNet/IP, Profinet, EtherCAT, etc; MQTT – History, MQTT broker, Message types, Quality of Service (QoS), Application; OPC UA – History, Specification, Client, Server, Programming with – Free and open-source software, Propriety software; Augmented Reality.
IoT Platform: Data Modelling, IoT platforms – Thing, basic functionalities, Abstract definition of Thing, Networks, etc; IoT Gateway, Machine interfaces – Cloud-based Mosquitto brokers, Programming with – Free and open-source software, Propriety software

MODULE 3:

(8 hours)

Machine Learning foundation: Learning algorithms – Supervised, Unsupervised, Self-learning, Feature learning, etc. Models – Artificial Neural Networks, Decision trees, Regression analysis.

Course Outcomes:

After completion of course the students will be able to:

- CO1: Introduce concept of Industry 4.0 for Smart Manufacturing.
- CO2: Understand use various hardware used in Smart Manufacturing.
- CO3: Understand need of various communication protocols, hardware and software.
- CO4: Understand cloud-computing IoT platform for Smart Manufacturing.
- CO5: Understand machine learning to make smart factories.

Text Book:

1. Christoph Jan Bartodziej, "The Concept Industry 4.0 – An Empirical Analysis of Technologies and Application in Production Logistics", Springer Gabler, 2015
2. Industry 4.0: Managing The Digital Transformation- Alp Ustundag , Emre Cevikcan, Springer
3. Daniel Minoli, "Building the Internet of Things with IPv6 and MIPv6: The Evolving World of M2M Communications", ISBN: 978-1-118-47347-4, Willy Publications.

Reference Book:

1. Alasdair Gilchrist, "Industry 4.0 – The Industrial Internet of Thigs", Springer Link, 2016


Online resources:

1. <https://www.sciencedirect.com/science/article/pii/S2351978918300672>
2. <https://www.sciencedirect.com/science/article/pii/S221282711630854X>
3. <https://www.sciencedirect.com/science/article/pii/S2212827114000857>

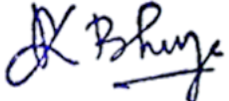
Evaluation Criteria

- Mandatory attendance of 75% for each student.
- Conduction of two internal assessments and students have to secure 50% marks in each assessment.
- Certificates will be awarded to each students fulfilling the above criteria.

Designed & developed by: Prof (Dr.) Sujit Kumar Khuntia & Prof. Jagannath Mohapatra


Principal
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H.O.D. Mech. Engg
HOB
Mechanical Engineering
College of Engineering Bhubaneswar


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COLLEGE OF ENGINEERING BHUBANESWAR

Plot No.1 (A), CNI Complex, Patia, Bhubaneswar – 751024, Odisha, India

NOTICE

Department of Mechanical Engineering

Add On Course 2018-2019

Ref No: COEB/ME/2018/19

Date: 04.06.2018


It is hereby informed to all the students that the Department of Mechanical Engineering is going to start the following Add-on courses for Academic year 2018-2019. All the students are instructed to enroll their names for the following courses on or before **23.06.2018**. The classes will be commenced from **17.07.2018** with timing from 5.30pm to 7.30pm. You can contact the following course co-ordinators for enrolment and any queries.


Sl No.	Name of Add-on Course	Sem	Duration in hours	Name of the course co-ordinators
1	Advanced Welding Techniques	3 rd	40	Prof. Subhakanta Nayak
2	Smart Manufacturing for Industry 4.0	5 th	40	Prof (Dr.) Sujit Kumar Khuntia
3	Boiler Safety	7 th	40	Dr. M. Selvom


HOD
Mechanical Engineering
College of Engineering Bhubaneswar
Mechanical Engineering Department

Copy to:

1. Vice Chairman
2. Executive Director
3. Principal
4. All Notice Board.
5. A.O(Admin)
6. All HODs
7. Hostel, Security


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College of Engineering Bhubaneswar
Mechanical Engineering Department


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COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MECHANICAL ENGINEERING ADD ON/CERTIFICATE COURSE STUDENT ENROLLMENT SHEET

Programme: B Tech in MECHANICAL ENGINEERING Academic Year : 2018-19
Semester: 5th Course Code (if any): Course Duration: 40 hours

Name of the Course: Smart Manufacturing for Industry 4.0

I do hereby undertake to participate in the above mentioned add on course.

Sl No.	Reg. No.	Name of the Students	Signature
1	1601219067	ABHIJEET SINGH	Abhijeet Singh
2	1601219068	AMAN	Aman
3	1601219069	ASHUTOSH KUMAR	Ashutosh Kumar
4	1601219070	DEBASIS BISWAL	Debasis Biswal
5	1601219071	DEEPAK XALXO	Deepak Xalxo
6	1601219072	JYOTI PRAKASH BISWAL	Jyoti Prakash Biswal
7	1601219073	LARAIB AHMAD	Laraib Ahmad
8	1601219074	MD SHADAB ALAM	Md Shadab Alam
9	1601219075	MD SHAHBAZ KHAN	Md. Shahbaz Khan
10	1601219076	MUKESH THAKUR	Mukesh Thakur
11	1601219077	RADHESHYAM KUSH	Radheshyam Kush
12	1601219078	RITWIK RUDRA	Ritwik Rudra
13	1601219079	SUBHRANSU SEKHAR	Subhransu Sekhar
14	1601219080	SURYA NARAYAN ROUT	Surya Narayan Rout
15	1601219081	VIKASH CHANDRA TIWARY	Vikash Ku. Tiwary
16	1601219127	ADITYA KUMAR	Aditya Kumar
17	1601219128	ASHUTOSH KUMAR	Ashutosh Kumar
18	1601219129	L AMAN	L. Aman
19	1601219130	PRAKASH KUMAR DAS	Prakash Ku. Das
20	1601219131	RASHMI EKKA	Rashmi Ekka
21	1601219132	SURAJ MAHANAND	Suraj Mahanand
22	1601219133	VIKRANT BAGE	Vikrant Bage
23	1601219151	KAMLESH KUMAR	Kamlesh Kumar
24	1601219168	ANKUSH DUBEY	Ankush Dubey
25	1601219169	RAJ PURTY	Raj Purty
26	1601219334	BIBHU KALYAN PADHI	Bibhu Kalyan Padhi
27	1601219335	OMM PRAKASH SWAIN	Omm Prakash Swain
28	1601219336	PALLABI JENA	Pallabi Jena
29	1601219337	PREETISUMAN SAHOO	P. Sahoo
30	1601219338	PRIYANKA SAHOO	Priyanka Sahoo



A. Bhuj
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STUDENT ENROLLMENT SHEET

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Sl No.	Reg. No.	Name of the Students	Signature
31	1601219339	RAJESH KUMAR SETHI	R.K. Sethi
32	1601219340	SUBHENDU BHOI	Subhendu Bhoi
33	1601219341	SUJIT KUMAR LAKRA	Sujit Ku. Lakra
34	1601219342	PABITRA KIRAN MISHRA	Pabitra Kiran Mishra
35	1601219343	MANAS RANJAN DAS	Manas Ranjan Das
36	1601219344	CHANDAN KUMAR SAHU	Chandan Sahu
37	1601219345	A K ROJALIN	A.K. Rojalin
38	1601219346	ABHAY KUMAR JHA	Abhay Kumar Jha
39	1601219347	ABHIJEET PATTNAYAK	Abhijeet Pattnayak
40	1601219348	ADARSHA MEHER	Adarsha Meher
41	1601219349	AJAY KALAKAR	Ajay Kalakar
42	1601219350	AJEET KUMAR SHARMA	A.K. Sharma
43	1601219351	ALFAHAD NAWAZ	Alfahad Nawaz
44	1601219352	ALOK KUMAR THAKUR	Alok Ku. Thakur
45	1601219353	AMIT KUMAR	Amit Kumar
46	1601219354	AMIT KUMAR GURU	Amit Kumar Guru
47	1601219355	AMIT KUMAR PANDA	Amit Kumar Panda
48	1601219356	AMLAN DEHURY	Amlan Dehury
49	1601219357	ANAND KUMAR ARYA	Anand Kumar Arya
50	1601219358	ARABINDA SAHU	Arabinda Sahu
51	1601219359	ARJUN MARNDI	Arjun Marndi
52	1601219360	ASEEM DAS	Aseem Das
53	1601219361	ASHIS RAY	Ashis Ray
54	1601219362	ASHISH SUMAN	Ashish Suman
55	1601219363	AVIJIT CHAKRABORTHY	Avijit Chakraborty
56	1601219364	AVINASH KUMAR	Avinash Kumar
57	1601219365	AYUSHI DAS	Ayushi Das
58	1601219366	BIBHUTI BHUSHAN MISHRA	Bibhuti Bhushan Mishra
59	1601219367	BISWAJIT NATH SHARMA	Biswajit Nath Sharma
60	1601219368	CHANDRA BHUSHAN KUMAR	



K. Bhuj

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ADD ON/CERTIFICATE COURSE
STUDENT ENROLLMENT SHEET

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Sl No.	Reg. No.	Name of the Students	Signature
61	1601219369	DEBABRATA DEHURI	Debabrata Dehuri
62	1601219370	DEEPAK JENA	Deepak Jena
63	1601219371	DEVI PRASAD SAMAL	Devi P. Samal
64	1601219372	DHANANJOY SINGH	Dhananjay Singh.
65	1601219373	DHIRAJ MUKHI	Dhiraj Mukhi




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DEPARTMENT OF MECHANICAL ENGINEERING
ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

PRINCIPAL
College of Engineering Bhubaneswar

R. Prady

(1)

Programme: B Tech in MECHANICAL ENGINEERING

Semester: 5th

Academic Year : 2018-19

Course Code (if any):

Sheet No:

Name of the Course: Smart Manufacturing for Industry 4.0

Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
1	1601219067	ABHIJEET SINGH	17/9/18	18/9/18	19/9/18	20/9/18
2	1601219068	AMAN	Abhishek Singh	Mujeeb Singh	Abhishek Singh	Abhishek Singh
3	1601219069	ASHUTOSH KUMAR	Ashutosh Kumar	Ashutosh Kumar	Ashutosh Kumar	Ashutosh Kumar
4	1601219070	DEBASIS BISWAL	Abhis	Debasis Biswal	Debasis Biswal	Debasis Biswal
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8	1601219074	MD SHAADAB ALAM	Md Shadab Alam	Md. Shadab Alam	Md. Shadab Alam	Md. Shadab Alam
9	1601219075	MD SHAHBAZ KHAN	Md. Shahbaz Khan	Md. Shahbaz Khan	Md. Shahbaz Khan	Md. Shahbaz Khan
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11	1601219077	RADHESHYAM KUSHI	Radheshyam Kushi	Radheshyam Kushi	Radheshyam Kushi	Radheshyam Kushi
12	1601219078	RITVIK RUDRA	Abhis	Ritik Rudra	Ritik Rudra	Ritik Rudra
13	1601219079	SEBHRANSHU SEKHAR	Subhanshu Sekhar	Subhanshu Sekhar	Subhanshu Sekhar	Subhanshu Sekhar
14	1601219080	SURYA NARAYAN ROU	Abhis	Surya N. Rou	Surya N. Rou	Surya N. Rou
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25	1601219169	RAJ PURTY	Raj Purty	Raj Purty	Raj Purty	Raj Purty
26	1601219334	BIBHU KALYAN PADHI	Abhis	Bibhu K. Padhi	Bibhu K. Padhi	Bibhu K. Padhi
27	1601219335	OMNIPRAKASH SWAIN	Omni Prakash Swain	Omni Prakash Swain	Omni Prakash Swain	Omni Prakash Swain





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DEPARTMENT OF MECHANICAL ENGINEERING
ADD ON/CERTIFICATE COURSE
STUDENT ATTENDANCE SHEET

Principal's Signature

Programme: B Tech In MECHANICAL ENGINEERING

Semester: 5th

Academic Year : 2018-19

Course Code (if any):

Sheet No:

Name of the Course: Smart Manufacturing for Industry 4.0		Date	Date	Date	Date
Sl.No.	Reg. No.	Name of the Students	Date	Date	Date
28	1601219336	PALLABI JENA	Mrs P. Suman	Pallabi Jena	Pallabi Jena
29	1601219337	PREETISUMAN SAHOO	P. Suman	P. Suman	P. Suman
30	1601219338	PRIVANKA SAHOO	Privenka saho	Privenka saho	Privenka saho
31	1601219339	RAJESH KUMAR SETHI	R.K. Sethi	R.K. Sethi	R.K. Sethi
32	1601219340	SUBHENDU BHOI	Subhendu Bhoi	Subhendu Bhoi	Subhendu Bhoi
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35	1601219343	MANAS RANJAN DAS	M. Ranjan Das	M. Ranjan Das	M. Ranjan Das
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37	1601219345	A K ROJATHIN	A.K. Rojathin	A.K. Rojathin	A.K. Rojathin
38	1601219346	ABHAY KUMAR JHA	Abhay Kumar Jha	Abhay Kumar Jha	Abhay Kumar Jha
39	1601219347	ABHIJEET PATNAYAK	Abhijeet	Abhijeet	Abhijeet
40	1601219348	ADARSHA MEHER	Adarsha Meher	Adarsha Meher	Adarsha Meher
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49	1601219357	ANAND KUMAR ARYA	Anand K. Arya	Anand K. Arya	Anand K. Arya
50	1601219358	ARABINDA SAHU	Arabinda Sahu	Arabinda Sahu	Arabinda Sahu
51	1601219359	ARJUN MARNADI	Arjun Marnadi	Arjun Marnadi	Arjun Marnadi
52	1601219360	ASEEM DAS	Aseem Das	Aseem Das	Aseem Das
53	1601219361	ASHIS RAY	Ashis Ray	Ashis Ray	Ashis Ray
54	1601219362	ASHISH SUMAN	Ashish Suman	Ashish Suman	Ashish Suman





COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Programme: B Tech in MECHANICAL ENGINEERING

Semester: 5th

Academic Year : 2018-19

Sheet No:

Name of the Course: Smart Manufacturing for Industry 4.0

Course Code (if any):

SI No.	Reg. No.	Name of the Students	Date	Date	Date	Date
55	1601219363	AVIJIT CHAKRABORTHY	Abs	Avijit Chakraborty	Avijit Chakraborty	Avijit Chakraborty
56	1601219364	AVINASH KUMAR	Avinash Kumar	Avinash Kumar	Abs	Avinash Kumar
57	1601219365	AYUSHI DAS	Ayushi Das	Ayushi Das	Ayushi Das	Ayushi Das
58	1601219366	BIBHUTI BHUSHAN MISHRA	B. B. Mishra	B. B. Mishra	B. B. Mishra	B. B. Mishra
59	1601219367	BISWAJIT NATH SHARMA	Biswajit Nath Sharma	Biswajit Nath Sharma	Biswajit Nath Sharma	Biswajit Nath Sharma
60	1601219368	CHANDRA BHUSHAN KUMAR	Chandra	Abs	Chandra	Abs
61	1601219369	DEBABRATA DEHURI	Debabrata Dehuri	Debabrata Dehuri	Debabrata Dehuri	Debabrata Dehuri
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65	1601219373	DHIRAJ MUKHI	Dhiraj Mukhi	Dhananjay Singh	Dhiraj Mukhi	Dhiraj Mukhi



[Signature]

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COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

College of Engineering Bhubaneswar

DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

2

Principal Signature

Programme: B Tech in MECHANICAL ENGINEERING

Semester: 5th

Academic Year : 2018-19

Course Code (if any):

Sheet No:

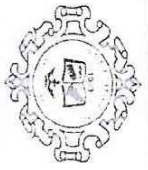
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Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
1	1601219067	ABHIJEET SINGH	23/7/18	24/7/18	25/7/18	26/7/18
2	1601219068	AMAN	Abhishek Singh	Abhishek Singh	Abhishek Singh	Abhishek Singh
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17	1601219128	ASHUTOSH KUMAR	Abis	Ashutosh Kumar	Ashutosh Kumar	Ashutosh Kumar
18	1601219129	L. AMAN	L. Aman	L. Aman	L. Aman	L. Aman
19	1601219130	PRAKASH KUMAR DAS	Prakash ku. Das	Prakash ku. Das	Prakash ku. Das	Prakash ku. Das
20	1601219131	RASHMI EKA	Rashmi's EKA	Rashmi's EKA	Rashmi's EKA	Rashmi's EKA
21	1601219132	SURAJ MAHANAND	Surey Mahanand	Surey Mahanand	Surey Mahanand	Surey Mahanand
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27	1601219335	OMM PRAKASH SWAIN	Abis	Omm Prakash Swain	Omm Prakash Swain	Omm Prakash Swain



Dr. P. R. Ray

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COLLEGE OF ENGINEERING BHUBANESWAR (COEB)
DEPARTMENT OF MECHANICAL ENGINEERING
ADD ON/CERTIFICATE COURSE
STUDENT ATTENDANCE SHEET

Programme: B Tech in MECHANICAL ENGINEERING Semester: 5th Academic Year : 2018-19

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31	1601219339	RAJESH KUMAR SETHI	R.K. Sethi	R.K. Sethi	R.K. Sethi
32	1601219340	SUBHENDU BHOI	Subhendy Bhoi	Subhendy Bhoi	Subhendy Bhoi
33	1601219341	SUJIT KUMAR LAKRA	Sujit Ku. Lakra	Sujit Ku. Lakra	Sujit Ku. Lakra
34	1601219342	PABITRA KIRAN MISHRA	Pabitra Kiran Mishra	Pabitra Kiran Mishra	Pabitra Kiran Mishra
35	1601219343	MANAS RANJAN DAS	M. Ranjan Das	M. Ranjan Das	M. Ranjan Das
36	1601219344	CHANDAN KUMAR SAHAI	Chandan Sahu	Chandan Sahu	Chandan Sahu
37	1601219345	A. K. ROJATHIN	A.K. Rojathin	A.K. Rojathin	A.K. Rojathin
38	1601219346	ABHAY KUMAR THA	Abhay Kumar Tha	Abhay Kumar Tha	Abhay Kumar Tha
39	1601219347	ADARSH PAETNAYAK	Adarsh Paetn	Adarsh Paetn	Adarsh Paetn
40	1601219348	ADARSH MEENA	Adarsh Meena	Adarsh Meena	Adarsh Meena
41	1601219349	ADARSH KALAKAR	Adarsh Kalakar	Adarsh Kalakar	Adarsh Kalakar
42	1601219350	A.K. SHARMA	A.K. Sharma	A.K. Sharma	A.K. Sharma
43	1601219351	ALFARHAD NAWAZ	Alfarhad Nawaz	Alfarhad Nawaz	Alfarhad Nawaz
44	1601219352	ALOK K. THAKUR	Alok K. Thakur	Alok K. Thakur	Alok K. Thakur
45	1601219353	AMIT KUMAR	Amit Kumar	Amit Kumar	Amit Kumar
46	1601219354	AMIT KUMAR	Amit Kumar	Amit Kumar	Amit Kumar
47	1601219355	ANIL KUMAR PANDA	Anil Kumar Panda	Anil Kumar Panda	Anil Kumar Panda
48	1601219356	ANIL DEHURIA	Anil Dehuria	Anil Dehuria	Anil Dehuria
49	1601219357	ANANDA KUMAR ARYA	Anand Ku. Arya	Anand Ku. Arya	Anand Ku. Arya
50	1601219358	ARABINDA SAHU	Arabinda Sahu	Arabinda Sahu	Arabinda Sahu
51	1601219359	ARJUN MAHARAJ	Arjun Mahari	Arjun Mahari	Arjun Mahari
52	1601219360	ASHEEM DAS	Asheem Das	Asheem Das	Asheem Das
53	1601219361	ASHISH RAY	Ashish Ray	Ashish Ray	Ashish Ray
54	1601219362	ASHISH SUMAN	Ashish Suman	Ashish Suman	Ashish Suman





COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

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Programme: B Tech in MECHANICAL ENGINEERING

Semester: 5th

Academic Year : 2018-19

Sheet No:

Name of the Course: Smart Manufacturing for Industry 4.0

Course Code (if any):

SI No.	Reg. No.	Name of the Students	Date	Date	Date	Date
55	1601219363	AVIJIT CHAKRABORTHY	Avijit Chakraborthy	ABR.	Avijit Chakraborthy	Avijit Chakraborthy
56	1601219364	AVINASH KUMAR	Avinash Kumar	Avinash Kumar	Avinash Kumar	Avinash Kumar
57	1601219365	AYUSHI DAS	Ayushi Das	Ayushi Das	Ayushi Das	Ayushi Das
58	1601219366	BIBHUTI BHUSHAN MISHRA	B. B. Mishra	B. B. Mishra	B. B. Mishra	B. B. Mishra
59	1601219367	BISWAJIT NATH SHARMA	Biswajit Nath Sharma	Biswajit Nath Sharma	Biswajit Nath Sharma	Biswajit Nath Sharma
60	1601219368	CHANDRA BHUSHAN KUMAR	Chandan	Chandan	Chandan	Chandan
61	1601219369	DEBABRATA DEHURI	Debabrata Dehuri	Debabrata Dehuri	Debabrata Dehuri	Debabrata Dehuri
62	1601219370	DEEPAK JENA	Deepak Jena	Deepak Jena	Deepak Jena	Deepak Jena
63	1601219371	DEVI PRASAD SAMAL	Devi P. Samal	Devi P. Samal	Devi P. Samal	Devi P. Samal
64	1601219372	DHANANJOY SINGH	Dhananjay Singh	Dhananjay Singh	Dhananjay Singh	Dhananjay Singh
65	1601219373	DHIRAJ MUKHI	Dhiraj Mukhi	Dhiraj Mukhi	Dhiraj Mukhi	Dhiraj Mukhi

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College of Engineering Bhubaneswar





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Principal Signature

Programme: B Tech in MECHANICAL ENGINEERING

Semester: 5th

Academic Year : 2018-19

Sheet No:

Name of the Course: Smart Manufacturing for Industry 4.0

SI No.	Reg. No.	Name of the Students	Date	Date	Date	Date
1	1601219067	ABHIJEET SINGH	30/07/18	31/07/18	01/08/18	05/08/18
2	1601219068	AMAN	Abhijeet Singh Amn	Amn	Abhijeet Singh Amn	Abhijeet Singh Amn
3	1601219069	ASHUTOSH KUMAR	Jyoti Prakash Biswal	Jyoti Prakash Biswal	Jyoti Prakash Biswal	Shubhankar Das
4	1601219070	DEBASIS BISWAL	Debasis Biswal	Debasis Biswal	Debasis Biswal	Debasis Biswal
5	1601219071	DEEPAK XALXO	Deepak Xalxo	Deepak Xalxo	Deepak Xalxo	Deepak Xalxo
6	1601219072	JYOTTI PRAKASH BISWAL	Jyoti Prakash Biswal	Jyoti Prakash Biswal	Jyoti Prakash Biswal	Jyoti Prakash Biswal
7	1601219073	LARAIB AHMAD	Laraib Ahmad	Laraib Ahmad	Laraib Ahmad	Laraib Ahmad
8	1601219074	MD SHADAB ALAMI	Md. Shadab Alam	Md. Shadab Alam	Md. Shadab Alam	Md. Shadab Alam
9	1601219075	MD SHAHBAZ KHAN	Md. Shahbaz Khan	Md. Shahbaz Khan	Md. Shahbaz Khan	Md. Shahbaz Khan
10	1601219076	MUKESH THAKUR	Mukesh Thakur	Mukesh Thakur	Mukesh Thakur	Mukesh Thakur
11	1601219077	RADHESHYAM KUSH	Radheshyam Kush	Radheshyam Kush	Radheshyam Kush	Radheshyam Kush
12	1601219078	RITWIK RUDRA	Ritwik Rudra	Ritwik Rudra	Ritwik Rudra	Ritwik Rudra
13	1601219079	SUBHRANSU SEKHAR	Subhransu Sekhar	Subhransu Sekhar	Subhransu Sekhar	Subhransu Sekhar
14	1601219080	SURYA NARAYAN ROUT	Surya N. Rout	Surya N. Rout	Surya N. Rout	Surya N. Rout
15	1601219081	VIKASH CHANDRA TIWARY	Vikas Ch. Tiwary	Vikas Ch. Tiwary	Vikas Ch. Tiwary	Vikas Ch. Tiwary
16	1601219127	ADITYA KUMAR	Aditya Kumar	Aditya Kumar	Aditya Kumar	Aditya Kumar
17	1601219128	ASHUTOSH KUMAR	Ashutosh Kumar	Ashutosh Kumar	Ashutosh Kumar	Ashutosh Kumar
18	1601219129	L. AMAN	L. Aman	L. Aman	L. Aman	L. Aman
19	1601219130	PRAKASH KUMAR DAS	Prakash Kumar Das	Prakash Kumar Das	Prakash Kumar Das	Prakash Kumar Das
20	1601219131	RASHMI EKA	Rashmi Eka	Rashmi Eka	Rashmi Eka	Rashmi Eka
21	1601219132	SURAJ MAHANAND	Suraj Mahanand	Suraj Mahanand	Suraj Mahanand	Suraj Mahanand
22	1601219133	VIKRANT BAGE	Vikrant Bage	Vikrant Bage	Vikrant Bage	Vikrant Bage
23	1601219151	KAMLESH KUMAR	Kamlesh Kumar	Kamlesh Kumar	Kamlesh Kumar	Kamlesh Kumar
24	1601219168	ANKUSH DUBEY	Ankush Dubey	Ankush Dubey	Ankush Dubey	Ankush Dubey
25	1601219169	RAJ PURTY	Raj Purty	Raj Purty	Raj Purty	Raj Purty
26	1601219334	BIBHU KALYAN PADHI	Bibhu Padhi	Bibhu Padhi	Bibhu Padhi	Bibhu Padhi
27	1601219335	OMM PRAKASH SWAIN	Omm Prakash Swain	Omm Prakash Swain	Omm Prakash Swain	Omm Prakash Swain





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Programme: B Tech in MECHANICAL ENGINEERING

Semester: 5th

Academic Year : 2018-19

Sheet No:

Name of the Course: Smart Manufacturing for Industry 4.0

SI No.	Reg. No.	Name of the Students	Date	Date	Date	Date
28	1601219336	PALLABI JENA	Pallabi Jena	Pallabi Jena	Pallabi Jena	Abs
29	1601219337	PREETISUMAN SAHOO	Abs	P. Sahoo	P. Sahoo	P. Sahoo
30	1601219338	PRIVANKA SAHOO	Privyanka Sahoo	Privyanka Sahoo	Privyanka Sahoo	Privyanka Sahoo
31	1601219339	RAJESH KUMAR SETHI	R.K. Sethi	R.K. Sethi	Abs	R.K. Sethi
32	1601219340	SUBHENDU BHOI	Subhendu Bhoi	Subhendu Bhoi	Subhendu Bhoi	Subhendu Bhoi
33	1601219341	SUJIT KUMAR LAKRA	Sujit Ku. Lakra	Sujit Ku. Lakra	Sujit Ku. Lakra	Sujit Ku. Lakra
34	1601219342	PABITRA KIRAN MISHRA	Pabitra K. Mishra	Pabitra K. Mishra	Pabitra K. Mishra	Pabitra K. Mishra
35	1601219343	MANAS RANJAN DAS	M. Ranjan Das	M. Ranjan Das	M. Ranjan Das	M. Ranjan Das
36	1601219344	CHANDAN KUMAR SAHU	Chandan K. Sahu	Chandan K. Sahu	Chandan K. Sahu	Chandan K. Sahu
37	1601219345	A K ROJALIN	A.K. Rojatin	A.K. Rojatin	A.K. Rojatin	A.K. Rojatin
38	1601219346	ABHAY KUMAR JHA	Abs	Abhay Kumar Jha	Abhay Kumar Jha	Abhay Kumar Jha
39	1601219347	ABHIJEET PATTNAYAK	Abhijeet	Abhijeet	Abhijeet	Abhijeet
40	1601219348	ADARSHA MEHER	Adarsha Meher	Adarsha Meher	Abs	Adarsha Meher
41	1601219349	AJAY KALAKAR	Ajay kalakar	Ajay kalakar	Ajay kalakar	Ajay kalakar
42	1601219350	AJEET KUMAR SHARMA	A.K. Sharma	A.K. Sharma	A.K. Sharma	A.K. Sharma
43	1601219351	ALFAHAD NAWAZ	Alfahad Nawaz	Alfahad Nawaz	Alfahad Nawaz	Alfahad Nawaz
44	1601219352	ALOK KUMAR THAKUR	Alok K. Thakur	Abs	Alok K. Thakur	Alok K. Thakur
45	1601219353	AMIT KUMAR	Amit Kumar	Amit Kumar	Amit Kumar	Amit Kumar
46	1601219354	AMIT KUMAR GURU	Amit Gurur	Amit Gurur	Amit Gurur	Abs
47	1601219355	AMIT KUMAR PANDA	Amit Kumar Panda	Amit Kumar Panda	Amit Kumar Panda	Amit Kumar Panda
48	1601219356	ANILAN DEHURY	Anil Kumar Dehury	Anil Kumar Dehury	Anil Kumar Dehury	Abs
49	1601219357	ANAND KUMAR ARYA	Anand Kumar Arya	Anand Kumar Arya	Anand Kumar Arya	Anand Kumar Arya
50	1601219358	ARABINDA SAHU	Arabinda Sahu	Arabinda Sahu	Arabinda Sahu	Arabinda Sahu
51	1601219359	ARJUN MARANDI	Abs	Anjun Marandi	Abs	Anjun Marandi
52	1601219360	ASEEM DAS	Aseem Das	Aseem Das	Aseem Das	Aseem Das
53	1601219361	ASHIS RAY	Ashis Ray	Ashis Ray	Ashis Ray	Ashis Ray
54	1601219362	ASHISH SUMAN	Abs	Ashish Suman	Ashish Suman	Abs





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Semester: 5th

Academic Year : 2018-19

Sheet No:

Name of the Course: Smart Manufacturing for Industry 4.0

Course Code (if any):

Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
55	1601219363	AVIJIT CHAKRABORTHY	Avijit Chakraborthy	Avijit Chakraborthy	Avijit Chakraborthy	Avijit Chakraborthy
56	1601219364	AVINASH KUMAR	Avinash Kumar	Avinash Kumar	Avinash Kumar	Avinash Kumar
57	1601219365	AYUSHI DAS	Ayushi Das	Ayushi Das	Ayushi Das	Ayushi Das
58	1601219366	BIBHUTI BHUSHAN MISHRA	ABBS	B. B. Mishra	B. B. Mishra	B. B. Mishra
59	1601219367	BISWAJIT NATH SHARMA	Biswajit Nath Sharma	Biswajit Nath Sharma	Biswajit Nath Sharma	Biswajit Nath Sharma
60	1601219368	CHANDRA BHUSHAN KUMAR	Chandra	ABBS	Chandra	Chandra
61	1601219369	DEBABRATA DEHURI	Debabrata Dehuri	Debabrata Dehuri	Debabrata Dehuri	Debabrata Dehuri
62	1601219370	DEEPAK JENA	Deepak Jena	Deepak Jena	Deepak Jena	Deepak Jena
63	1601219371	DEVI PRASAD SAMAL	Devi P. Samal	Devi P. Samal	Devi P. Samal	Devi P. Samal
64	1601219372	DHANANJOY SINGH	Dhananjay Singh	ABBS	Dhananjay Singh	Dhananjay Singh
65	1601219373	DHIRAJ MUKHI	Dhiraj Mukhi	Dhiraj Mukhi	Dhiraj Mukhi	Dhiraj Mukhi

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Programme: B Tech in MECHANICAL ENGINEERING

Semester: 5th

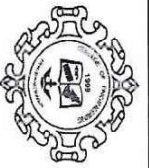
Academic Year : 2018-19

Sheet No:

Name of the Course: Smart Manufacturing for Industry 4.0

Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
1	1601219067	ABHIJEET SINGH	11/8/18	18/8/18	12/8/18	18/8/18
2	1601219068	AMAN	Abhijit Singh Aman	Ashish Singh Aman	Ashish Singh Aman	Aman
3	1601219069	ASHUTOSH KUMAR	Ashutosh Kumar	Ashish Singh	Ashutosh Kumar	Ashutosh Kumar
4	1601219070	DEBASIS BISWAL	Debasish Biswal	Debasish Biswal	Debasish Biswal	Debasish Biswal
5	1601219071	DEEPAK XALXO	Deepak Xalxo	Deepak Xalxo	Deepak Xalxo	Deepak Xalxo
6	1601219072	JYOTTI PRAKASH BISWAL	Jyoti P. Biswal	Jyoti P. Biswal	Jyoti P. Biswal	Jyoti P. Biswal
7	1601219073	LARAIB AHMAD	Laraib Ahmad	Laraib Ahmad	Laraib Ahmad	Laraib Ahmad
8	1601219074	MD SHADAB ALAMI	Md. Shadab Alami	Md. Shadab Alami	Md. Shadab Alami	Md. Shadab Alami
9	1601219075	MD SHAHBAZ KHAN	Md. Shahbaz Khan	Md. Shahbaz Khan	Md. Shahbaz Khan	Md. Shahbaz Khan
10	1601219076	MUKESH THAKUR	Mukesh Thakur	Mukesh Thakur	Mukesh Thakur	Mukesh Thakur
11	1601219077	RADHESHYAM KUSH	Radheshyam Kush	Radheshyam Kush	Radheshyam Kush	Radheshyam Kush
12	1601219078	RITWIK RUDRA	Ritik Rudra	Ritik Rudra	Ritik Rudra	Ritik Rudra
13	1601219079	SUBHRANSU SEKHAR	Subhransu Sekhar	Subhransu Sekhar	Subhransu Sekhar	Subhransu Sekhar
14	1601219080	SURYA NARAYAN ROUT	Surya N. Rout	Surya N. Rout	Surya N. Rout	Surya N. Rout
15	1601219081	VIKASH CHANDRA TIWARY	Vikas Ch. Tiwary	Vikas Ch. Tiwary	Vikas Ch. Tiwary	Vikas Ch. Tiwary
16	1601219127	ADITYA KUMAR	Aditya Kumar	Aditya Kumar	Aditya Kumar	Aditya Kumar
17	1601219128	ASHUTOSH KUMAR	Ashutosh Kumar	Ashutosh Kumar	Ashutosh Kumar	Ashutosh Kumar
18	1601219129	L. AMAN	L. Aman	L. Aman	L. Aman	L. Aman
19	1601219130	PRAKASH KUMAR DAS	Prakash Kumar Das	Prakash Kumar Das	Prakash Kumar Das	Prakash Kumar Das
20	1601219131	RASHMI EKA	Rashmi Eka	Rashmi Eka	Rashmi Eka	Rashmi Eka
21	1601219132	SURAJ MAHANAND	Sunay Mahanand	Sunay Mahanand	Sunay Mahanand	Sunay Mahanand
22	1601219133	VIKRANT BAGE	Vikrant Bage	Vikrant Bage	Vikrant Bage	Vikrant Bage
23	1601219151	KAMLESH KUMAR	Kamlesh Kumar	Kamlesh Kumar	Kamlesh Kumar	Kamlesh Kumar
24	1601219168	ANKUSH DUBEY	Ankush Dubey	Ankush Dubey	Ankush Dubey	Ankush Dubey
25	1601219169	RAJ PURTY	Raj Purty	Raj Purty	Raj Purty	Raj Purty
26	1601219334	BIBHU KALYAN PADHI	Bibhu K. Padhi	Bibhu K. Padhi	Bibhu K. Padhi	Bibhu K. Padhi
27	1601219335	OMM PRAKASH SWAIN	Omm Prakash Swain	Omm Prakash Swain	Omm Prakash Swain	Omm Prakash Swain





COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON/CERTIFICATE COURSE

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Programme: B Tech in MECHANICAL ENGINEERING

Semester: 5th

Academic Year : 2018-19

Sheet No:

Name of the Course: Smart Manufacturing for Industry 4.0

Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
28	1601219336	PALLABI JENA	Pallabi Jena	Pallabi Jena	Pallabi Jena	Pallabi Jena
29	1601219337	PREETISUMAN SAHOO	P. Sahoo	P. Sahoo	P.S	P. Sahoo
30	1601219338	PRİYANKA SAHOO	Prityanka saho	Prityanka saho	P.S	Prityanka saho
31	1601219339	RAJESH KUMAR SETHI	R.S	R.K. Sethi	R.K. Sethi	R.K. Sethi
32	1601219340	SUBHENDU BHOI	Subhendu Bhoi	Subhendu Bhoi	Subhendu Bhoi	Subhendu Bhoi
33	1601219341	SUJIT KUMAR LAKRA	Sujit Ku. Lakra	Sujit Ku. Lakra	Sujit Ku. Lakra	Sujit Ku. Lakra
34	1601219342	PABITRA KIRAN MISHRA	Pabitra Kiran Mishra	Pabitra Kiran Mishra	Pabitra Kiran Mishra	Pabitra Kiran Mishra
35	1601219343	MANAS RANJAN DAS	M. Ranjan Das	M. Ranjan Das	M. Ranjan Das	M. Ranjan Das
36	1601219344	CHANDAN KUMAR SAHU	Chandan K. Sahu	Chandan K. Sahu	Chandan K. Sahu	Chandan K. Sahu
37	1601219345	A K ROJALIN	A.K. Rojalin	A.K. Rojalin	A.K. Rojalin	A.K. Rojalin
38	1601219346	ABHAY KUMAR JHA	Abhay Kumar Jha	Abhay Kumar Jha	Abhay Kumar Jha	Abhay Kumar Jha
39	1601219347	ABHIJEET PATTNAYAK	Abhijeet	Abhijeet	Abhijeet	Abhijeet
40	1601219348	ADARSHA MEHER	Aadarsha Meher	Aadarsha Meher	Aadarsha Meher	Aadarsha Meher
41	1601219349	AJAY KALAKAR	Ajay kalakar	Ajay kalakar	Ajay kalakar	Ajay kalakar
42	1601219350	AJEET KUMAR SHARMA	A.K. Sharma	A.K. Sharma	A.K. Sharma	A.K. Sharma
43	1601219351	ALFAHAD NAWAZ	Alfahad Nawaz	Alfahad Nawaz	Alfahad Nawaz	Alfahad Nawaz
44	1601219352	ALOK KUMAR THAKUR	Alok K. Thakur	Alok K. Thakur	Alok K. Thakur	Alok K. Thakur
45	1601219353	AMIT KUMAR	Amit Kumar	Amit Kumar	Amit Kumar	Amit Kumar
46	1601219354	AMIT KUMAR GURU	Amit Kumar	Amit Kumar	Amit Kumar	Amit Kumar
47	1601219355	AMIT KUMAR PANDA	Amit Kumar Panda	Amit Kumar Panda	Amit Kumar Panda	Amit Kumar Panda
48	1601219356	ANILAN DEHURY	Anilan dehury	Anilan dehury	Anilan dehury	Anilan dehury
49	1601219357	ANAND KUMAR ARYA	Anand Ku. Arya	Anand Ku. Arya	Anand Ku. Arya	Anand Ku. Arya
50	1601219358	ARABINDA SAHU	Arabinda Sahu	Arabinda Sahu	Arabinda Sahu	Arabinda Sahu
51	1601219359	ARJUN MARNDI	Arjun Marandi	Arjun Marandi	Arjun Marandi	Arjun Marandi
52	1601219360	ASEEM DAS	Aseem Das	Aseem Das	Aseem Das	Aseem Das
53	1601219361	ASHIS RAY	Ashis Ray	Ashis Ray	Ashis Ray	Ashis Ray
54	1601219362	ASHISH SUMAN	Ashish Suman	Ashish Suman	Ashish Suman	Ashish Suman





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Semester: 5th

Academic Year : 2018-19

Name of the Course: Smart Manufacturing for Industry 4.0

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55	1601219363	AVIJIT CHAKRABORTHY	AB	Avijit Chakraborty	AB	Avijit Chakraborty
56	1601219364	AVINASH KUMAR	Avinash Kumar	Avinash Kumar	Avinash Kumar	Avinash Kumar
57	1601219365	AYUSHI DAS	Ayushi Das	Ayushi Das	Ayushi Das	Ayushi Das
58	1601219366	BIBHUTI BHUSHAN MISHRA	B. B. Mishra	B. B. Mishra	B. B. Mishra	B. B. Mishra
59	1601219367	BISWAJIT NATH SHARMA	Biswajit Nath Sharma	Biswajit Nath Sharma	Biswajit Nath Sharma	Biswajit Nath Sharma
60	1601219368	CHANDRA BHUSHAN KUMAR	AB	Chandra	Chandra	Chandra
61	1601219369	DEBABRATA DEHURI	Debabrata Dehuri	Debabrata Dehuri	Debabrata Dehuri	Debabrata Dehuri
62	1601219370	DEEPAK JENA	Deepak Jena	Deepak Jena	Deepak Jena	Deepak Jena
63	1601219371	DEVI PRASAD SAMAL	Devi P. Samal	Devi P. Samal	Devi P. Samal	Devi P. Samal
64	1601219372	DHANANJOY SINGH	Dhananjay Singh	Dhananjay Singh	Dhananjay Singh	Dhananjay Singh
65	1601219373	DHIRAJ MUKHI	Dhiraj Mukhi	Dhiraj Mukhi	Dhiraj Mukhi	Dhiraj Mukhi

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Programme: B Tech in MECHANICAL ENGINEERING

Semester: 5th

Academic Year : 2018-19

Sheet No:

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Name of the Course: Smart Manufacturing for Industry 4.0

Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
1	1601219067	ABHIJEET SINGH	19/08/18	20/08/18	21/08/18	22/08/18
2	1601219068	AMAN	Abhijeet Singh Amn	Abhijeet Singh Amn	Abhijeet Singh Amn	Abhijeet Singh Amn
3	1601219069	ASHUTOSH KUMAR	Abhitesh Kumar	Ashutosh Kumar	Ashutosh Kumar	Ashutosh Kumar
4	1601219070	DEBASIS BISWAL	Debasish Biswal	Debasish Biswal	Debasish Biswal	Debasish Biswal
5	1601219071	DEEPAK XALXO	Deepak Xalxo	Deepak Xalxo	Deepak Xalxo	Deepak Xalxo
6	1601219072	JYOTI PRAKASH BISWAL	Jyoti Prakash	Jyoti Prakash	Jyoti Prakash	Jyoti Prakash
7	1601219073	LARAIB AHMAD	Laraib Ahmad	Laraib Ahmad	Laraib Ahmad	Laraib Ahmad
8	1601219074	MD SHADAB ALAMI	Md. Shadab Alam	Md. Shadab Alam	Md. Shadab Alam	Md. Shadab Alam
9	1601219075	MD SHAHBAZ KHAN	Md. Shahbaz Khan	Md. Shahbaz Khan	Md. Shahbaz Khan	Md. Shahbaz Khan
10	1601219076	MUKESH THAKUR	Mukesh Thakur	Mukesh Thakur	Mukesh Thakur	Mukesh Thakur
11	1601219077	RADHESHYAM KUSH	Radhesyam Kush	Radhesyam Kush	Radhesyam Kush	Radhesyam Kush
12	1601219078	RITWIK RUDRA	Ritwik Rudra	Ritwik Rudra	Ritwik Rudra	Ritwik Rudra
13	1601219079	SUBHRANSU SEKHAR	Subhansu Sekhar	Subhansu Sekhar	Subhansu Sekhar	Subhansu Sekhar
14	1601219080	SURYA NARAYAN ROUT	Surya Nar. Rout	Surya N. Rout	Surya N. Rout	Surya N. Rout
15	1601219081	VIKASH CHANDRA TIWARY	Vikas Ch. Tiwary	Vikas Ch. Tiwary	Vikas Ch. Tiwary	Vikas Ch. Tiwary
16	1601219127	ADITYA KUMAR	Aditya Kumar	Aditya Kumar	Aditya Kumar	Aditya Kumar
17	1601219128	ASHUTOSH KUMAR	Ashutosh Kumar	Ashutosh Kumar	Ashutosh Kumar	Ashutosh Kumar
18	1601219129	L. AMAN	L. Aman	L. Aman	L. Aman	L. Aman
19	1601219130	PRAKASH KUMAR DAS	Prakash Ku. Das	Prakash Ku. Das	Prakash Ku. Das	Prakash Ku. Das
20	1601219131	RASHMI EKA	Rashmi Eka	Rashmi Eka	Rashmi Eka	Rashmi Eka
21	1601219132	SURAJ MAHANAND	Suraj Mahanand	Suraj Mahanand	Suraj Mahanand	Suraj Mahanand
22	1601219133	VIKRANT BAGE	Vikrant Bage	Vikrant Bage	Vikrant Bage	Vikrant Bage
23	1601219151	KAMLESH KUMAR	Kamlesh Kumar	Kamlesh Kumar	Kamlesh Kumar	Kamlesh Kumar
24	1601219168	ANKUSH DUBEY	Ankush Dubey	Ankush Dubey	Ankush Dubey	Ankush Dubey
25	1601219169	RAJ PURTY	Raj Purty	Raj Purty	Raj Purty	Raj Purty
26	1601219334	BIBHU KALYAN PADHI	B. Padhi	B. Padhi	B. Padhi	B. Padhi
27	1601219335	OMMI PRAKASH SWAIN	Ommi Prakash Swain	Ommi Prakash Swain	Ommi Prakash Swain	Ommi Prakash Swain





COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

College of Engineering Bhubaneswar

PRINCIPAL

[Signature]

Programme: B Tech in MECHANICAL ENGINEERING

Semester: 5th

Academic Year : 2018-19

Sheet No:

Name of the Course: Smart Manufacturing for Industry 4.0

SI No.	Reg. No.	Name of the Students	Date	Date	Date	Date
28	1601219336	PALLABI JENA	Pallabi Jena	Pallabi Jena	Pallabi Jena	<i>[Signature]</i>
29	1601219337	PREETISUMAN SAHOO	P. Sahoo	P. Sahoo	P. Sahoo	P. Sahoo
30	1601219338	PRIVANKA SAHOO	Privanka Sahoo	Privanka Sahoo	Privanka Sahoo	Privanka Sahoo
31	1601219339	RAJESH KUMAR SETHI	R.K. Sethi	R.K. Sethi	R.K. Sethi	R.K. Sethi
32	1601219340	SUBHENDU BHOI	Subhendu Bhoi	Subhendu Bhoi	Subhendu Bhoi	Subhendu Bhoi
33	1601219341	SUJIT KUMAR LAKRA	Sujit K. Lakra	Sujit K. Lakra	Sujit K. Lakra	Sujit K. Lakra
34	1601219342	PABITRA KIRAN MISHRA	P.K. Mishra	P.K. Mishra	P.K. Mishra	P.K. Mishra
35	1601219343	MANAS RANJAN DAS	M. Ranjan Das	M. Ranjan Das	M. Ranjan Das	M. Ranjan Das
36	1601219344	CHANDAN KUMAR SAHU	Chandan Sahu	Chandan Sahu	Chandan Sahu	Chandan Sahu
37	1601219345	A K ROJALIN	A.K. Rojalin	A.K. Rojalin	A.K. Rojalin	A.K. Rojalin
38	1601219346	ABHAY KUMAR JHA	Abhay Kumar Jha	Abhay Kumar Jha	Abhay Kumar Jha	Abhay Kumar Jha
39	1601219347	ABHIJEET PATTNAYAK	Abhijeet Pattnayak	Abhijeet Pattnayak	Abhijeet Pattnayak	Abhijeet Pattnayak
40	1601219348	ADARSHA MEHER	Adarsha Meher	Adarsha Meher	Adarsha Meher	Adarsha Meher
41	1601219349	AJAY KALAKAR	Ajay Kalakar	Ajay Kalakar	Ajay Kalakar	Ajay Kalakar
42	1601219350	AJEET KUMAR SHARMA	Ajeet Kumar Sharma	Ajeet Kumar Sharma	Ajeet Kumar Sharma	Ajeet Kumar Sharma
43	1601219351	ALFAHAD NAWAZ	Alfahad Nawaz	Alfahad Nawaz	Alfahad Nawaz	Alfahad Nawaz
44	1601219352	ALOK KUMAR THAKUR	Alok K. Thakur	Alok K. Thakur	Alok K. Thakur	Alok K. Thakur
45	1601219353	AMIT KUMAR	Amit Kumar	Amit Kumar	Amit Kumar	Amit Kumar
46	1601219354	AMIT KUMAR GURU	Amit Kumar Guru	Amit Kumar Guru	Amit Kumar Guru	Amit Kumar Guru
47	1601219355	AMIT KUMAR PANDA	Amit Kumar Panda	Amit Kumar Panda	Amit Kumar Panda	Amit Kumar Panda
48	1601219356	AMLAN DEHURY	Amlan Dehury	Amlan Dehury	Amlan Dehury	Amlan Dehury
49	1601219357	ANAND KUMAR ARYA	Anand K. Arya	Anand K. Arya	Anand K. Arya	Anand K. Arya
50	1601219358	ARABINDA SAHU	Arabinda Sahu	Arabinda Sahu	Arabinda Sahu	Arabinda Sahu
51	1601219359	ARJUN MANDI	Arjun Mandi	Arjun Mandi	Arjun Mandi	Arjun Mandi
52	1601219360	ASEEM DAS	Aseem Das	Aseem Das	Aseem Das	Aseem Das
53	1601219361	ASHIS RAY	Ashis Ray	Ashis Ray	Ashis Ray	Ashis Ray
54	1601219362	ASHISH SUMAN	Ashish Suman	Ashish Suman	Ashish Suman	Ashish Suman





COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MECHANICAL ENGINEERING
ADD ON/CERTIFICATE COURSE
STUDENT ATTENDANCE SHEET

Programme: B Tech in MECHANICAL ENGINEERING

Semester: 5th

Academic Year : 2018-19

Name of the Course: Smart Manufacturing for Industry 4.0

Course Code (if any):

Sheet No:

Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
55	1601219363	AVJIT CHAKRABORTHY	Avijit Chakraborthy	Avijit Chakraborthy		Avijit Chakraborthy
56	1601219364	AVINASH KUMAR	Avinash Kumar	Avinash Kumar		Avinash Kumar
57	1601219365	AYUSHI DAS	Ayushi Das	Ayushi Das		Ayushi Das
58	1601219366	BIBHUTI BHUSHAN MISHRA	B. B. Mishra	B. B. Mishra		B. B. Mishra
59	1601219367	BISWAJIT NATH SHARMA	Biswajit Nath Sharma			Biswajit Nath Sharma
60	1601219368	CHANDRA BHUSHAN KUMAR	Chandran	Chandran		Chandran
61	1601219369	DEBABRATA DEHURI	Deepak Jena	Debabrata Deb		Debabrata Deb
62	1601219370	DEEPAK JENA	Deepak Jena	Deepak Jena		Deepak Jena
63	1601219371	DEVI PRASAD SAMAL	Devi P Samal	Devi P Samal		Devi P Samal
64	1601219372	DHANANJOY SINGH	Dhananjay Singh	Dhananjay Singh		Dhananjay Singh
65	1601219373	DHIRAJ MUKHI	Dhirend Mukhi	Dhirend Mukhi		Dhirend Mukhi

(Signature)
PRINCIPAL
College of Engineering Bhubaneswar





COLLEGE OF ENGINEERING BHUBANESWAR
PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion


This is to certify that Mr./Ms. DEBABRATA DEHURI, student of the Department

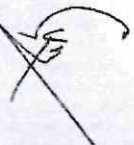
of Mechanical Engg. semester Fifth bearing registration number 1601219369

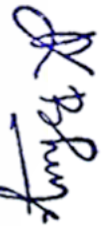
has successfully completed the ADD-ON Course titled Smart Manufacturing for Industry 4.0

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

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Course-Coordinator


Principal


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COLLEGE OF ENGINEERING BHUBANESWAR
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Certificate of Completion


This is to certify that Mr./Ms. DEEPAK JENA, student of the Department

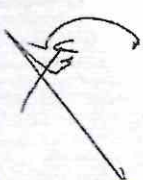
of Mechanical Engg. semester Fifth bearing registration number 1601219370

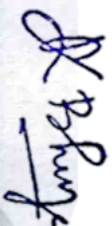
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COLLEGE OF ENGINEERING BHUBANESWAR
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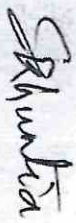
This is to certify that Mr./Ms. DEVI PRASAD SAMAL, student of the Department

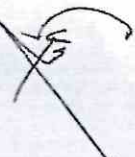
of Mechanical Engg. semester Fifth bearing registration number 1601219371

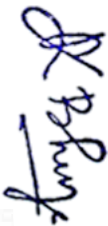
has successfully completed the ADD-ON Course titled Smart Manufacturing for Industry 4.0

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This is to certify that Mr./Ms. DHANANJOY SINGH, student of the Department


of Mechanical Engg. semester Fifth bearing registration number 1601219372


has successfully completed the ADD-ON Course titled Smart Manufacturing for Industry 4.0

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

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Course-Coordinator


Principal


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 PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion

This is to certify that Mr./Ms.

DHIRAJ MUKHI

student of the Department

of Mechanical Engg.

semester Fifth bearing registration number 1601219373

has successfully completed the ADD-ON Course titled Smart Manufacturing for Industry 4.0

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

TRUE COPY

S. Khuntia

Course-Coordinator

[Signature]

Principal

[Signature]

PRINCIPAL

College of Engineering Bhubaneswar