



**COLLEGE OF ENGINEERING BHUBANESWAR (COEB)**

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

[AFFILIATED TO BPUT, ODISHA]

[www.coeb.ac.in](http://www.coeb.ac.in)

PRINCIPAL  
College of Engineering Bhubaneswar

**DEPARTMENT OF MECHANICAL ENGINEERING**

**ADD-ON COURSE : Advanced Welding Techniques**

[Programme: B.Tech, Mechanical Engg.]

Semester: 3<sup>rd</sup>

**Course Objectives:**

- ❖ To impart knowledge regarding various advanced welding practices in industries.
- ❖ To understand the various parameters and requirements for welding processes.
- ❖ To know the comparative merits and demerits of various welding processes.
- ❖ To understand the right kind of welding technique suitable for various joints.
- ❖ To learn about the joint designs adopted in different types of welding techniques.

**SYLLABUS**

**Total Lecture Hours: 40**

**MODULE 1:**

**(14 hours)**

Introduction to consolidation processes, Classification of welding processes, some common concerns, types of fusionwelds and types of joints, Design considerations, Heat effects, Weldability and join ability. Welding terms and definitions, welding positions, elements of and construction of welding symbols. Checks prior to weld joint preparation, joint preparation checks, preheating and inter-pass heating, post weld heating, heating processes, post heat treatments, insulation of heated joints.

**MODULE 2:**

**(14 hours)**

Solidification of weld metal: Principle of solidification of weld metal, modes of solidification, effect of welding parameters on weld structure, grain refinement principle of weld metal, method of weld metal refinement, inoculation, arc pulsation, external excitation.

Heat affected zone and weld metal: Transformations in HAZ of steel, factors affecting changes in microstructure and mechanical properties of HAZ, reactions in weld pool- gas metal reaction, slag metal reaction.

**MODULE 3:**

**(12 hours)**

Codes governing welding inspection: Structural welding code; ASME boiler and pressure vessel code, spot examination of welded joints, duties of the inspector, ASTM standards, API standards. Chemical, Metallurgical, and Mechanical testing of weldments: Comparison

of destructive and non-destructive tests, chemical tests, forms of corrosion, testing for corrosion resistance, metallographic tests.

**Text Book:**

1. Khanna O. P. – ‘A Text Book on Welding Technology’ – Dhanpat Rai and Sons, New Delhi – 2013
2. Parmar R. S. – ‘Welding Process and Technology’ – Khanna Publishers, Delhi – 1992
3. Dr. S.P. Tewari & S. A. Rizvi-Advanced welding Technology- S. K. Kataria, 4<sup>th</sup> Edition

**Reference Text Book:**

1. Welding technology, R. Bittle, TMH
2. American society for metals, metal hand book vol.6
3. Welding process technology-Houldcraft PT-cambridgeuniv.press


**Online resources:**

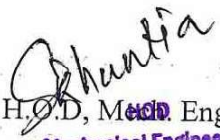
<https://archive.nptel.ac.in/courses/112/103/112103244/>

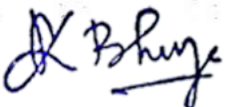
**Evaluation Criteria**

- 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: Dr. Subhakanta Nayak & Dr. N. H. S. Ray

  
Principal  
PRINCIPAL  
College of Engineering Bhubaneswar

  
H.O.D, Mech. Engg.  
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 2019-2020

Ref No: COEB/ME/2019/15

Date: 03.07.2019


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 2019-2020. All the students are instructed to enrol their names for the following courses on or before 23.07.2019. The classes will be conducted from 13/08/2019 during 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 <sup>rd</sup>	40	Prof (Dr.) Subhakanta Nayak
2	Smart Manufacturing for Industry 4.0	5 <sup>th</sup>	40	Prof (Dr.) S. D. Mohanty
3	Boiler Safety	7 <sup>th</sup>	40	Prof. Tapas Kumar Chand

Copy to:

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

  
HOD  
Mechanical Engineering Department  
College of Engineering Bhubaneswar

  
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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 : 2019-20

Semester: 3rd Course Code (if any): Course Duration: 40 hours

Name of the Course: Advanced Welding Techniques

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

Sl No.	Reg. No.	Name of the Students	Signature
1	1801219005	AMAN NIKHIL TOPNO	Aman Nikhil TOPNO
2	1801219009	ANKIT KUMAR NAYAK	Ankit Kumar Nayak
3	1801219019	ASHUTOSH BEHERA	Ashutosh Behera
4	1801219032	BIKASH SAHA	Bikash Saha
5	1801219034	BIPLAB ROUT	Biplab Rout
6	1801219037	CHANDAN PARIDA	Chandan Parida
7	1801219057	HAREKRUSHNA NAYAK	Harekrushna Nayak
8	1801219061	JASHOBANTA MUNDA	Jashobanta Munda
9	1801219066	KHAGESWAR MALIK	Khageswar Malik
10	1801219067	KULDEEP KUMAR	Kuldeep Kumar
11	1801219089	NIHAL PRAJAPATI	Nihal Prajapati
12	1801219092	OMKAR RAMANUJA	Omkar Ramanuja
13	1801219095	PADMAN HARIJAN	Padman Harijan
14	1801219103	PRAVASINI MISHRA	Pravasini Mishra
15	1801219106	PRIYABRATA BHUYAN	Priyabrata Bhuyan
16	1801219113	RAHUL KUMAR SETHI	Rahul Kumar Sethi
17	1801219114	RAHUL RAVIDAS	Rahul Ravidas
18	1801219124	SALUKA SUNDI	Saluka Sundi
19	1801219126	SANDEEP KUMAR BEURA	Sandeep Kumar Beura
20	1801219128	SANJAYA SWAIN	Sanjaya Swain
21	1801219134	SATYA BRATA ROUT	Satya Brata Rout
22	1801219138	SAYUB ANSARI	Sayub Ansari
23	1801219143	SHRITAM PATRA	Shritam Patra
24	1801219147	SK ZIAUDDIN	SK Ziauddin
25	1801219150	SOUBHAGYA RANJAN SAHU	S.R. SAHU
26	1801219157	SUBHRAJIT PATTNAYAK	Subhrajit Pattnayak
27	1801219167	SWAYAMSUBHAM PANDA	Swayam Subham Panda
28	1801219171	TUSHAR KUMAR SAMAL	Tushar Kumar Samal
29	1801219172	UPENDRA SAHU	Upendra Sahu
30	1801219234	ABHISHEK PRABHUPAD	Abhishek Prabhupad



*A. Bhuye*

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Sl No.	Reg. No.	Name of the Students	Signature
31	1801219235	ABINASH ABANI KUMAR	Abinash Abani Kumar
32	1801219236	ABINASH SETHY	Abinash sethy
33	1801219237	AKHILESH MISHRA	Akhilesh Mishra
34	1801219238	AMIR HAMZA	Amir hamza
35	1801219239	ANKUSH KUMAR MOHANTY	ankush kumar mohanty
36	1801219240	ATIK RAGIB KHAN	atik ragib Khan
37	1801219241	BIBHUDENDU DAS	Bibhudendu Das
38	1801219242	BIDYUT KUMAR PARIDA	Bidyut Ku. Parida
39	1801219243	BIRENDRA KUMAR SAHOO	Birendra Ku saho
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43	1801219247	DEVENDRA GOI	Devendra Goi
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45	1801219249	DIGBIJAYA DAS	Digbijaya Das
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52	1801219256	PANKAJ KUMAR MOHANTY	Pankaj Kumar mohanty
53	1801219257	PAPU BEHERA	Papu Behera
54	1801219258	PRADEEP KUMAR SETHY	pradeep kumar sethy
55	1801219259	PRAMOD KUMAR JENA	Pramod Kumar jena
56	1801219260	PRASENJIT MAITY	Prasenjit maity
57	1801219261	PRATIK KUMAR KAR	Pratik Ku Kar
58	1801219262	PRAVAT KUMAR MALLICK	Pravat Ku mallick
59	1801219263	RAGHUNATH KUMAR	Raghnath Kumar
60	1801219264	RAKESH BEHERA	Rakesh Behera



*A. Bhuje*

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Sl No.	Reg. No.	Name of the Students	Signature
61	1801219265	RAKESH MAJHI	Rakesh majhi
62	1801219266	RAKESH RATH	Rakesh Rath
63	1801219267	RUPESH KUMAR MISHRA	Rupesh Kumar Mishra
64	1801219268	SAJAL MAHAPATRA	Sajal Mahapatra



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*J. B. Singh*

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*(Signature)*

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College of Engineering Bhubaneswar

Course Code (if any):

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*(Handwritten signatures and names of the Principal and other officials)*



*J. P. Singh*

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30	1801219234	ABHISHEK PRABHUPAD	Abhishek prabhupad	Abhishek prabhupad
31	1801219235	ABINASH ABANI KUMAR	Abinash Abinash	Abinash sethy
32	1801219236	ABINASH SETHY	Abinash sethy	Abinash sethy
33	1801219237	AKHILESH MISHRA	Akhilesh Mishra	Akhilesh Mishra
34	1801219238	AMIR HAMZA	Amir hamza	Amir hamza
35	1801219239	ANKUSH KUMAR MOHANTY	Ankush kumar Mohanty	Ankush kumar Mohanty
36	1801219240	ATIK RAGIB KHAN	Atik ragib Khan	Atik ragib Khan
37	1801219241	BIBHUNDU DAS	Bibhundu das	Bibhundu das
38	1801219242	BIDYUT KUMAR PARIDA	Bidyut kumar Parida	Bidyut kumar Parida
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45	1801219249	DIGBIJAYA DAS	Digbijaya Das	Digbijaya Das
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54	1801219258	PRADEEP KUMAR SETHY	Pradeep Kumar sethy	Pradeep Kumar sethy





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56	1801219260	PRASENJIT MAITY	Prasenjit Maity	Prasenjit Maity	Prasenjit Maity	Prasenjit Maity	Prasenjit Maity
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62	1801219266	RAKESH RATH	Rakesh Rath	Rakesh Rath	Rakesh Rath	Rakesh Rath	Rakesh Rath
63	1801219267	RUPESH KUMAR MISHRA	Rupesh Kumar Mishra	Rupesh Kumar Mishra	Rupesh Kumar Mishra	Rupesh Kumar Mishra	Rupesh Kumar Mishra
64	1801219268	SAJAL MAHAPATRA	Sajal Mahapatra	Sajal Mahapatra	Sajal Mahapatra	Sajal Mahapatra	Sajal Mahapatra



*[Handwritten Signature]*

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8	1801219061	JASHOBANTA MUNDA	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
9	1801219066	KHAGESWAR MALIK	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
10	1801219067	KULDEEP KUMAR	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
11	1801219089	NIHAL PRAJAPATI	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
12	1801219092	OMKAR RAMANUJA	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
13	1801219095	PADMAN HARIJAN	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
14	1801219103	PRAVASINI MISHRA	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
15	1801219106	PRIYABRATA BHUYAN	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
16	1801219113	RAHUL KUMAR SETHI	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
17	1801219114	RAHUL RAVIDAS	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
18	1801219124	SALUKA SUNDI	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
19	1801219126	SANDEEP KUMAR BEURA	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
20	1801219128	SANJAYA SWAIN	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
21	1801219134	SATIYA BRATA ROU	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
22	1801219138	SAYUB ANSARI	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
23	1801219143	SHRITAM PATRA	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
24	1801219147	SK ZIAUDDIN	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
25	1801219150	SUBHAGYA RANJAN SAHU	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
26	1801219157	SUBHRAJIT PATTNAYAK	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19
27	1801219167	SWAYAMSUBHAM PANDA	28/8/19	29/8/19	29/8/19	29/8/19	29/8/19



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32	1801219236	ABINASH SETHY	Abinash Sathy	Abinash Sathy	Abinash Sathy
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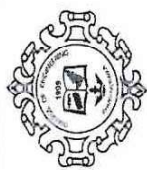
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58	1801219262	PRAVAT KUMAR MALLICK	Pravat Kumar Mallick	Pravat Kumar Mallick	Pravat Kumar Mallick
59	1801219263	RAGHUNATH KUMAR	Raghunath Kumar	Raghunath Kumar	Raghunath Kumar
60	1801219264	RAKESH BEHERA	Rakesh Behera	Rakesh Behera	Rakesh Behera
61	1801219265	RAKESH MAJHI	Rakesh Majhi	Rakesh Majhi	Rakesh Majhi
62	1801219266	RAKESH RATH	Rakesh Rath	Rakesh Rath	Rakesh Rath
63	1801219267	RUPESH KUMAR MISHRA	Rupesh Kumar Mishra	Rupesh Kumar Mishra	Rupesh Kumar Mishra
64	1801219268	SAJAL MAHAPATRA	Sajal Mahapatra	Sajal Mahapatra	Sajal Mahapatra



*(Signature)*

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*A. Bhuy*

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

Programme: B Tech in MECHANICAL ENGINEERING		Semester: 3rd		Academic Year : 2019-20		Sheet No:	
Name of the Course: Advanced Welding Techniques							
Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date	Date
1	1801219005	AMAN NIKHIL TOPNO	11/9/19	13/9/19	16/9/19	17/9/19	
2	1801219009	ANKIT KUMAR NAYAK	AMAN NIKHIL TOPNO	AMAN NIKHIL TOPNO	AMAN NIKHIL TOPNO	AMAN NIKHIL TOPNO	
3	1801219019	ASHUTOSH BEHERA	ANKIT KUMAR NAYAK	ANKIT KUMAR NAYAK	ANKIT KUMAR NAYAK	ANKIT KUMAR NAYAK	
4	1801219032	BIKASH SAHA	ASHUTOSH BEHERA	ASHUTOSH BEHERA	ASHUTOSH BEHERA	ASHUTOSH BEHERA	
5	1801219034	BIPLAB ROUT	BIKASH SAHA	BIKASH SAHA	BIKASH SAHA	BIKASH SAHA	
6	1801219037	CHANDAN PARIDA	BIPLAB ROUT	BIPLAB ROUT	BIPLAB ROUT	BIPLAB ROUT	
7	1801219057	HAREKRUSHNA NAYAK	CHANDAN PARIDA	CHANDAN PARIDA	CHANDAN PARIDA	CHANDAN PARIDA	
8	1801219061	JASHOBANTA MUNDA	KATAPANA MALIKA	KATAPANA MALIKA	KATAPANA MALIKA	KATAPANA MALIKA	
9	1801219066	KHAGESWAR MALIK	JASHOBANTA MUNDA	JASHOBANTA MUNDA	JASHOBANTA MUNDA	JASHOBANTA MUNDA	
10	1801219067	KULDEEP KUMAR	KHAGESWAR MALIK	KHAGESWAR MALIK	KHAGESWAR MALIK	KHAGESWAR MALIK	
11	1801219089	NIHAL PRAJAPATI	KULDEEP KUMAR	KULDEEP KUMAR	KULDEEP KUMAR	KULDEEP KUMAR	
12	1801219092	OMKAR RAMANUJA	NIBHAI PRAJAPATI	NIBHAI PRAJAPATI	NIBHAI PRAJAPATI	NIBHAI PRAJAPATI	
13	1801219095	PADMAN HARIJAN	OMKAR RAMANUJA	OMKAR RAMANUJA	OMKAR RAMANUJA	OMKAR RAMANUJA	
14	1801219103	PRAVASINI MISHRA	PADMAN HARIJAN	PADMAN HARIJAN	PADMAN HARIJAN	PADMAN HARIJAN	
15	1801219106	PRIYABRATA BHUYAN	PRAVASINI MISHRA	PRAVASINI MISHRA	PRAVASINI MISHRA	PRAVASINI MISHRA	
16	1801219113	RAHUL KUMAR SETHI	PRIYABRATA BHUYAN	PRIYABRATA BHUYAN	PRIYABRATA BHUYAN	PRIYABRATA BHUYAN	
17	1801219114	RAHUL RAVIDAS	RAHUL K. SETHI	RAHUL K. SETHI	RAHUL K. SETHI	RAHUL K. SETHI	
18	1801219124	SALUKA SUNDI	RAHUL K. SETHI	RAHUL K. SETHI	RAHUL K. SETHI	RAHUL K. SETHI	
19	1801219126	SANDEEP KUMAR BEURA	RAHUL RAVIDAS	RAHUL RAVIDAS	RAHUL RAVIDAS	RAHUL RAVIDAS	
20	1801219128	SANJAYA SWAIN	SALUKA SUNDI	SALUKA SUNDI	SALUKA SUNDI	SALUKA SUNDI	
21	1801219134	SATIYA BRATA ROUT	SANDEEP KUMAR BEURA	SANDEEP KUMAR BEURA	SANDEEP KUMAR BEURA	SANDEEP KUMAR BEURA	
22	1801219138	SAYUB ANSARI	SANJAYA SWAIN	SANJAYA SWAIN	SANJAYA SWAIN	SANJAYA SWAIN	
23	1801219143	SHRITAM PATRA	SATIYA BRATA ROUT	SATIYA BRATA ROUT	SATIYA BRATA ROUT	SATIYA BRATA ROUT	
24	1801219147	SK ZIAUDDIN	SAYUB ANSARI	SAYUB ANSARI	SAYUB ANSARI	SAYUB ANSARI	
25	1801219150	SOUBHAGYA RANJAN SAHU	SHRITAM PATRA	SHRITAM PATRA	SHRITAM PATRA	SHRITAM PATRA	
26	1801219157	SUBHRAJIT PATTNAYAK	SK ZIAUDDIN	SK ZIAUDDIN	SK ZIAUDDIN	SK ZIAUDDIN	
27	1801219167	SWAYAMSUBHAM PANDA	S. R. SAHU	S. R. SAHU	S. R. SAHU	S. R. SAHU	



*J. B. Singh*

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

Programme: B Tech in MECHANICAL ENGINEERING Semester: 3rd Academic Year : 2019-20

Name of the Course: Advanced Welding Techniques Course Code (if any): Sheet No:

Sl No.	Reg. No.	Name of the Students	Date	Date	Date
28	1801219171	TUSHAR KUMAR SAMAL	Tushar Samal	Tushar Samal	Tushar K. Samal
29	1801219172	UPENDRA SAHU	Upendra Sahu	Upendra Sahu	Upendra Sahu
30	1801219234	ABHISHEK PRABHUPAD	Abhishek Prabhupad	Abhishek Prabhupad	Abhishek Prabhupad
31	1801219235	ABINASH ABANI KUMAR	Abinash Abani Kumar	Abinash Abani Kumar	Abinash Abani Kumar
32	1801219236	ABINASH SETHY	Abinash Sethy	Abinash Sethy	Abinash Sethy
33	1801219237	AKHILESH MISHRA	Akhilesh Mishra	Akhilesh Mishra	Akhilesh Mishra
34	1801219238	AMIR HAMZA	Amir Hamza	Amir Hamza	Amir Hamza
35	1801219239	ANKUSH KUMAR MOHANTY	Ankush Kumar Mohanty	Ankush Kumar Mohanty	Ankush Kumar Mohanty
36	1801219240	ATIK RAGIB KHAN	Atik Ragib Khan	Atik Ragib Khan	Atik Ragib Khan
37	1801219241	BIBHUNDU DAS	Bibhendu Das	Bibhendu Das	Bibhendu Das
38	1801219242	BIDYUT KUMAR PARIDA	Bidyut Kumar Parida	Bidyut Kumar Parida	Bidyut Kumar Parida
39	1801219243	BIRENDRA KUMAR SAHOO	B. K. Sahoo	B. K. Sahoo	B. K. Sahoo
40	1801219244	BISWAJIT MOHANTY	Biswan Mohanty	Biswan Mohanty	Biswan Mohanty
41	1801219245	DEBASILPI PATTANAIK	Debasilpi Pattanaik	Debasilpi Pattanaik	Debasilpi Pattanaik
42	1801219246	DEBASISH MALLICK	Debasish Mallik	Debasish Mallik	Debasish Mallik
43	1801219247	DEVENDRA GOI	Devendra Goi	Devendra Goi	Devendra Goi
44	1801219248	DIGAMBAR BISWAS	Digambar Biswas	Digambar Biswas	Digambar Biswas
45	1801219249	DIGBIJAYA DAS	Digbijaya Das	Digbijaya Das	Digbijaya Das
46	1801219250	DILLIP KUMAR BARIK	Dillip Kumar Barik	Dillip Kumar Barik	Dillip Kumar Barik
47	1801219251	DIPESH KUMAR SATPATHY	D. K. Satpathy	D. K. Satpathy	D. K. Satpathy
48	1801219252	JITENDRA BEHERA	Jitendra Behera	Jitendra Behera	Jitendra Behera
49	1801219253	KAMALA GARANAYAK	Kamal Gar	Kamal Gar	Kamal Gar
50	1801219254	KAMESHWAR MANDAL	Keshwar Mandal	Keshwar Mandal	Keshwar Mandal
51	1801219255	KRISHNASISH BEHERA	Koushik Behera	Koushik Behera	Koushik Behera
52	1801219256	PANKAJ KUMAR MOHANTY	Pankaj Kumar Mohanty	Pankaj Kumar Mohanty	Pankaj Kumar Mohanty
53	1801219257	PAPU BEHERA	Papu Behera	Papu Behera	Papu Behera
54	1801219258	PRADEEP KUMAR SETHY	Pradeep Kumar Sethy	Pradeep Kumar Sethy	Pradeep Kumar Sethy





**COLLEGE OF ENGINEERING BHUBANESWAR (COEB)**

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

Programme: B Tech in MECHANICAL ENGINEERING		Semester: 3rd		Academic Year : 2019-20		Sheet No:	
Name of the Course: Advanced Welding Techniques				Course Code (if any):			
Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date	Date
55	1801219259	PRAMOD KUMAR JENA	Pranod Kumar Jena	Pranod Kumar Jena	Pranod Kumar Jena	Pranod Kumar Jena	Pranod Kumar Jena
56	1801219260	PRASENJIT MAITY	Prasenjit Maity	Prasenjit Maity	Prasenjit Maity	Prasenjit Maity	Prasenjit Maity
57	1801219261	PRATIK KUMAR KAR	Pratik Kumar Kar	Pratik Kumar Kar	Pratik Kumar Kar	Pratik Kumar Kar	Pratik Kumar Kar
58	1801219262	PRAVAT KUMAR MALLICK	Pravat Kumar Mallick	Pravat Kumar Mallick	Pravat Kumar Mallick	Pravat Kumar Mallick	Pravat Kumar Mallick
59	1801219263	RAGHUNATH KUMAR	Raghunath Kumar	Raghunath Kumar	Raghunath Kumar	Raghunath Kumar	Raghunath Kumar
60	1801219264	RAKESH BEHERA	Rakesh Behera	Rakesh Behera	Rakesh Behera	Rakesh Behera	Rakesh Behera
61	1801219265	RAKESH MAJHI	Rakesh Majhi	Rakesh Majhi	Rakesh Majhi	Rakesh Majhi	Rakesh Majhi
62	1801219266	RAKESH RATH	Rakesh Rath	Rakesh Rath	Rakesh Rath	Rakesh Rath	Rakesh Rath
63	1801219267	RUPESH KUMAR MISHRA	Rupesh Kumar Mishra	Rupesh Kumar Mishra	Rupesh Kumar Mishra	Rupesh Kumar Mishra	Rupesh Kumar Mishra
64	1801219268	SAJAL MAHAPATRA	Sajal Mahapatra	Sajal Mahapatra	Sajal Mahapatra	Sajal Mahapatra	Sajal Mahapatra

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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. AMAN NIKHIL TOPNO, student of the Department

of Mechanical Engg. semester Third bearing registration number 1801219005

has successfully completed the ADD-ON Course titled Advanced Welding Techniques

conducted at College of Engineering Bhubaneswar in the academic year 2019-20

**TRUE COPY**

Course-Coordinator

Principal

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# Certificate of Completion

This is to certify that Mr./Ms. ANKIT KUMAR NAYAK student of the Department

of Mechanical Engg. semester Third bearing registration number 1801219009

has successfully completed the ADD-ON Course titled Advanced Welding Techniques

conducted at College of Engineering Bhubaneswar in the academic year 2019-20

**TRUE COPY**

Course-Coordinator

Principal

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# Certificate of Completion

This is to certify that Mr./Ms. BIKASH SAHA student of the Department

of Mechanical Engg. semester Third bearing registration number 1801219032

has successfully completed the ADD-ON Course titled Advanced Welding Techniques

conducted at College of Engineering Bhubaneswar in the academic year 2019-20

*[Signature]*

Course-Coordinator

*[Signature]*

Principal

*[Signature]*

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 College of Engineering Bhubaneswar

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# *Certificate of Completion*

This is to certify that Mr./Ms. BIPLAB ROUT, student of the Department


of Mechanical Engg. semester Third bearing registration number 1801219034


has successfully completed the ADD-ON Course titled Advanced Welding Techniques

conducted at College of Engineering Bhubaneswar in the academic year 2019-20

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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. CHANDAN PARIDA, student of the Department

of Mechanical Engg. semester Third bearing registration number 1801219037

has successfully completed the ADD-ON Course titled Advanced Welding Techniques

conducted at College of Engineering Bhubaneswar in the academic year 2019-20

Course-Coordinator

Principal

PRINCIPAL  
College of Engineering Bhubaneswar

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