



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 : Introduction to 3D Printing

[Programme: B.Tech, Mechanical Engg.]

Semester: 7th

Course Objectives:

- To know the fundamental of various 3D Printing Techniques for application to various industrial needs.
- To know how to convert part file into STL format
- To understand the method of manufacturing of liquid based, powder based and solid based techniques.

SYLLABUS

Total Lecture Hours: 40

MODULE 1:

(12 hours)

Introduction to Design, Prototyping fundamentals. Introduction to 3D printing, its historical development, advantages. Commonly used terms, process chain, 3D modelling, Data Conversion, and transmission, Checking and preparing Building, Post processing, RP data formats, Classification of 3D printing process, Applications to various fields

MODULE 2:

(12 hours)

Stereo lithography apparatus (SLA): Models and specifications, process, working principle, Photo polymers, photo polymerization, layering technology, laser and laser scanning, applications, advantages and disadvantages, case studies. Solid ground curing (SGC): Models and specifications, process, working principle, applications, advantages and disadvantages, case studies.

MODULE 3:

(16 hours)

Laminated object manufacturing (LOM): Models and specifications, Process, Working principle, Applications, Advantages and disadvantages, Case studies. Fused Deposition Modeling (FDM): Models and specifications, Process, Working principle, Applications, Advantages and disadvantages, Case studies, practical demonstration

Course Outcomes: After completion of course the students will be able to:

- CO1: Understand the background and the nature 3D printing.
- CO2: Use of tware tools for 3D printing
- CO3: Prepare 3D printed modules
- CO4: Construct products using LOM and FDM technologies

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Text Books:

1. Chua C.K., Leong K.F. and LIM C.S. Rapid prototyping: Principles and Applications, World Scientific publications, 3rd Ed., 2010
2. D.T. Pham and S.S. Dimov, "Rapid Manufacturing", Springer, 2001

Reference Textbook:

1. Terry Wohlers, "Wohlers Report 2000", Wohlers Associates, 2000
2. Paul F. Jacobs, "Rapid Prototyping and Manufacturing", ASME Press, 1996
3. Ian Gibson, Davin Rosen, Brent Stucker "Additive Manufacturing technologies", Springer, 2nd Ed, 2014.

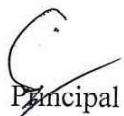
Online resources:

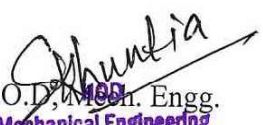
<https://futureskillsprime.in/course/introduction-3d-printing-cad-modeling>

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 student fulfilling the above criteria.

Designed & developed by: Dr. Shanta Mohapatra and Prof. Mr. Jagannath Mohapatra


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H.O.D., M.Tech. Engg.
Mechanical Engineering
College of Engineering Bhubaneswar


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

NOTICE


Department of Mechanical Engineering
Add On Course 2021-2022

Ref No: COEB/ME/2021/09

Date: 22.11.2021

It is hereby informed to all the students that the Department of Automobile Engineering is going to start the following Add-on courses for Academic year 2021-2022. All the students are instructed to enroll their names for the following courses on or before **30.11.2021**. The classes will be commenced from **06/12/2021** during 5.30pm to 7.30pm. You can contact the following course co-ordinators for enrolment and any queries.

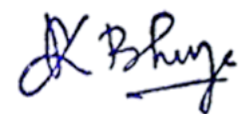
Sl No.	Name of Add-on Course	Sem.	Duration in hours	Name of the course co-ordinators
1	Designing Components Using Solid Works	3 rd	40	Dr. N. K. Vadivel
2	Nano Technology	5 th	40	Prof. Jagannath Mohapatra
3	Introduction to 3D Printing	7 th	40	Prof (Dr.) Sujit Kumar Khuntia


HOD
Mechanical Engineering Department
College of Engineering Bhubaneswar

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


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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 : 2021-22	
Semester: 7 th	Course Code (if any):	Course Duration: 40 hours
Name of the Course: Introduction to 3D Printing	Sheet No:	

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 Kumare
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 Ku. Sethi
17	1801219114	RAHUL RAVIDAS	Rahul Ravidas
18	1801219124	SALUKA SUNDI	Saluka Sundi
19	1801219126	SANDEEP KUMAR BEURA	Sandeep Ku 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	Swayamsubham Panda
28	1801219171	TUSHAR KUMAR SAMAL	Tushar Kumar Samal
29	1801219172	UPENDRA SAHU	Upendra Sahu
30	1801219234	ABHISHEK PRABHUPAD	Abhishek prabhupad




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Semester: 7 th	Course Code (if any):	Course Duration: 10 hours
Name of the Course: Introduction to 3D Printing	Sheet No:	

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

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 kumar sahu 00
40	1801219244	BISWAJIT MOHANTY	Biswajit mohanty
41	1801219245	DEBASILPI PATTANAIK	Debasilpi pattanaik.
42	1801219246	DEBASISH MALLICK	Debasish Mallick
43	1801219247	DEVENDRA GOI	Devendra Goi
44	1801219248	DIGAMBAR BISWAS	Digambar Biswas
45	1801219249	DIGBIJAYA DAS	Digbijaya Das
46	1801219250	DILLIP KUMAR BARIK	dillip kumar barik
47	1801219251	DIPESH KUMAR SATPATHY	D.K. Satpathy
48	1801219252	JITENDRA BEHERA	Jitendra Behera
49	1801219253	KAMALA GARANAYAK	Kamla Garak
50	1801219254	KAMESHWAR MANDAL	Kameshwar mandal
51	1801219255	KRISHNASISH BEHERA	Krishna behera
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	Pranod kumar jena
56	1801219260	PRASENJIT MAITY	Prasenjit maity
57	1801219261	PRATIK KUMAR KAR	pratik ku kar
58	1801219262	PRAVAT KUMAR MALLICK	Pravat Kd mallick
59	1801219263	RAGHUNATH KUMAR	Raghunath kumar
60	1801219264	RAKESH BEHERA	Rakesh Behera



K. Bhuj

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Semester: 7 th	Course Code (if any):	Course Duration: 40 hours
Name of the Course: Introduction to 3D Printing		Sheet No:

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

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 ka mishra
64	1801219268	SAJAL MAHAPATRA	Sajal Mahapatra




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Academic Year : 2021-22

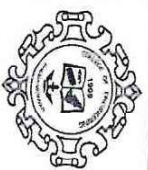
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8	1801219061	JASHOBANTA MUNDA	07/12/21	07/12/21	07/12/21
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20	1801219128	SANIYA SWAIN	07/12/21	07/12/21	07/12/21
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22	1801219138	SAYUB ANSARI	07/12/21	07/12/21	07/12/21
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25	1801219150	SOUBHAGYA RANJAN SAHU	07/12/21	07/12/21	07/12/21
26	1801219157	SUBHRAJIT PATTNAYAK	07/12/21	07/12/21	07/12/21
27	1801219167	SWAYAMSUBHAM PANDA	07/12/21	07/12/21	07/12/21

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56	1801219260	PRASENJIT MAITY	Pramod Kumar Jena	Pramod Kumar Jena	Pramod Kumar Jena	Pramod Kumar Jena
57	1801219261	PRADEEP KUMAR KAR	Prasenjit Maity	Prasenjit Maity	Prasenjit Maity	Prasenjit Maity
58	1801219262	PRAVAT KUMAR MALLICK	Pratik Kumar Kar	Pratik Kumar Kar	Pratik Kumar Kar	Pratik Kumar Kar
59	1801219263	RAGHUNATH KUMAR	Pravat Kumar Mallik	Pravat Kumar Mallik	Pravat Kumar Mallik	Pravat Kumar Mallik
60	1801219264	RAKESH BEHERA	Raghu Nath Kumar	Raghu Nath Kumar	Raghu Nath Kumar	Raghu Nath Kumar
61	1801219265	RAKESH MAJHI	Rakesh Behera	Rakesh Behera	Rakesh Behera	Rakesh Behera
62	1801219266	RAKESH RATH	Rakesh Behera	Rakesh Behera	Rakesh Behera	Rakesh Behera
63	1801219267	RUPESH KUMAR MISHRA	Rakesh Rath	Rakesh Rath	Rakesh Rath	Rakesh Rath
64	1801219268	SAJAL MAHAPATRA	Rupesh Kumar Mishra	Rupesh Kumar Mishra	Rupesh Kumar Mishra	Rupesh Kumar Mishra

(Handwritten Signature)



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21	1801219134	SATYA BRATA ROU	Satya Brata Rou	Satya Brata Rou	Satya Brata Rou	Satya Brata Rou
22	1801219138	SAYUB ANSARI	Sayub Ansari	Sayub Ansari	Sayub Ansari	Sayub Ansari
23	1801219143	SHRITAM PATRA	Shritam Patra	Shritam Patra	Shritam Patra	Shritam Patra
24	1801219147	SK ZIAUDDIN	Sk Ziauddin	Sk Ziauddin	Sk Ziauddin	Sk Ziauddin
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Name of the Course: Introduction to 3d Printing

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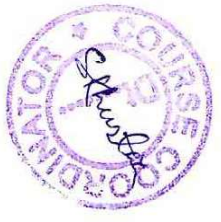
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55	1801219259	PRAMOD KUMAR JENA	Pramod Kumar Jena	Pramod Kumar Jena	Pramod Kumar Jena	
56	1801219260	PRASENJIT MAITY	Prasenjit Maity	Prasenjit Maity	Prasenjit Maity	
57	1801219261	PRATIK KUMAR KAR	Pratik Kumar Kar	Pratik Kumar Kar	Pratik Kumar Kar	
58	1801219262	PRAVAT KUMAR MALLICK	Pravat Kumar Mallik	Pravat Kumar Mallik	Pravat Kumar Mallik	
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	

S. B. Singh

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Name of the Course: Introduction to 3d Printing

Course Code (if any):

Sheet No:

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





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Name of the Course: Introduction to 3d Printing

Date

Date

Date

Date

Date

Sheet No:

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





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Name of the Course: Introduction to 3d Printing		Course Code (if any):		Sheet No:	
Sl No.	Reg. No.	Name of the Students	Date	Date	Date
55	1801219259	PRAMOD KUMAR JENA			
56	1801219260	PRASENJIT MAITY			
57	1801219261	PRADEEP KUMAR KAR			
58	1801219262	PRAVAT KUMAR MALLICK			
59	1801219263	RAGHUNATH KUMAR			
60	1801219264	RAKESH BEHERA			
61	1801219265	RAKESH MAJHI			
62	1801219266	RAKESH RATH			
63	1801219267	RUPESH KUMAR MISHRA			
64	1801219268	SAJAL MAHAPATRA			




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Programme: B Tech in MECHANICAL ENGINEERING

Semester: 7th

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Name of the Course: Introduction to 3d Printing

Course Code (if any):

Sheet No:

Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
1	1801219005	AMAN NIKHIL TOPNO	22/12/21	23/12/21	24/12/21	26/12/22
2	1801219009	ANKIT KUMAR NAYAK	Pratik Kumar Nayak	Pratik Kumar Nayak	Pratik Kumar Nayak	Pratik Kumar Nayak
3	1801219019	ASHUTOSH BEHERA	Ashutosh Behera	Ashutosh Behera	Ashutosh Behera	Ashutosh Behera
4	1801219032	BIKASH SAHA	Bikash Saha	Bikash Saha	Bikash Saha	Bikash Saha
5	1801219034	BIPLAB ROU	Biplab Rou	Biplab Rou	Biplab Rou	Biplab Rou
6	1801219037	CHANDAN PARIDA	Chandan Parida	Chandan Parida	Chandan Parida	Chandan Parida
7	1801219057	HAREKRUSHNA NAYAK	Harekrushna Nayak	Harekrushna Nayak	Harekrushna Nayak	Harekrushna Nayak
8	1801219061	JASHOBANTA MUNDA	Jashobanta Munda	Jashobanta Munda	Jashobanta Munda	Jashobanta Munda
9	1801219066	KHAGESWAR MALIK	Khageswar Malik	Khageswar Malik	Khageswar Malik	Khageswar Malik
10	1801219067	KULDEEP KUMAR	Kuldeep Kumar	Kuldeep Kumar	Kuldeep Kumar	Kuldeep Kumar
11	1801219089	NIHAL PRAJAPATI	Nihal Prajapati	Nihal Prajapati	Nihal Prajapati	Nihal Prajapati
12	1801219092	OMIKAR RAMANUJA	Omkar Ramanuja	Omkar Ramanuja	Omkar Ramanuja	Omkar Ramanuja
13	1801219095	PADMAN HARIJAN	Padman Harijan	Padman Harijan	Padman Harijan	Padman Harijan
14	1801219103	PRAVASINI MISHRA	Pravasi Mishra	Pravasi Mishra	Pravasi Mishra	Pravasi Mishra
15	1801219106	PRITYABRATA BHUYAN	Prityabrata Bhuyan	Prityabrata Bhuyan	Prityabrata Bhuyan	Prityabrata Bhuyan
16	1801219113	RAHUL KUMAR SETHI	Rahul Kumar Sethi	Rahul Kumar Sethi	Rahul Kumar Sethi	Rahul Kumar Sethi
17	1801219114	RAHUL RAVIDAS	Rahul Ravidas	Rahul Ravidas	Rahul Ravidas	Rahul Ravidas
18	1801219124	SALUKA SUNDI	Saluka Sundi	Saluka Sundi	Saluka Sundi	Saluka Sundi
19	1801219126	SANDEEP KUMAR BEURA	Sandeep Kumar Beura	Sandeep Kumar Beura	Sandeep Kumar Beura	Sandeep Kumar Beura
20	1801219128	SANJAYA SWAIN	Sanjaya Swain	Sanjaya Swain	Sanjaya Swain	Sanjaya Swain
21	1801219134	SATYA BRATA ROU	Satya Brata Rou	Satya Brata Rou	Satya Brata Rou	Satya Brata Rou
22	1801219138	SAYUB ANSARI	Sayub Ansari	Sayub Ansari	Sayub Ansari	Sayub Ansari
23	1801219143	SHRITAM PATRA	Shritam Patra	Shritam Patra	Shritam Patra	Shritam Patra
24	1801219147	SK ZIAUDDIN	Sk Ziauddin	Sk Ziauddin	Sk Ziauddin	Sk Ziauddin
25	1801219150	SOUBHAGYA RANJAN SAHU	Soubhagya Ranjan Sahu	Soubhagya Ranjan Sahu	Soubhagya Ranjan Sahu	Soubhagya Ranjan Sahu
26	1801219157	SUBHRAJIT PATTNAYAK	Subhrajit Pattanayak	Subhrajit Pattanayak	Subhrajit Pattanayak	Subhrajit Pattanayak
27	1801219167	SWAYAMSUBHAM PANDA	Swayamsubham Panda	Swayamsubham Panda	Swayamsubham Panda	Swayamsubham Panda



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Academic Year : 2021-22

Name of the Course: Introduction to 3d Printing

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Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
28	1801219171	TUSHAR KUMAR SAMAL				
29	1801219172	UPENDRA SAHU	Teejan Sen	Tejal Sen	Teejan Sen	Teejan Sen
30	1801219234	ABHISHEK PRABHUPAD	Ushakra Sahu	Ushakra Sahu	Ushakra Sahu	Ushakra Sahu
31	1801219235	ABINASH ABANI KUMAR	Abhishek Prabhupad	Abhishek Prabhupad	Abhishek Prabhupad	Abhishek Prabhupad
32	1801219236	ABINASH SETHY	Abinash Sathy	Abinash Sathy	Abinash Sathy	Abinash Sathy
33	1801219237	AKHILESH MISHRA	AKHILESH MISHRA	AKHILESH MISHRA	AKHILESH MISHRA	AKHILESH MISHRA
34	1801219238	AMIR HAMZA	Amir Hamza	Amir Hamza	Amir Hamza	Amir Hamza
35	1801219239	ANKUSH KUMAR MOHANTY	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	Atik Ragib Khan
37	1801219241	BIBHUNDENDU DAS	Bibhundenud Das	Bibhundenud Das	Bibhundenud Das	Bibhundenud Das
38	1801219242	BIDYUT KUMAR PARIDA	Bidyut Ku. Parida	Bidyut Ku. Parida	Bidyut Ku. Parida	Bidyut Ku. Parida
39	1801219243	BIRENDRA KUMAR SAHOO	B. R. Sahoo	B. R. Sahoo	B. R. Sahoo	B. R. Sahoo
40	1801219244	BISWAJIT MOHANTY	Biswasjit Mohanty	Biswasjit Mohanty	Biswasjit Mohanty	Biswasjit Mohanty
41	1801219245	DEBASUJJI PATTANAİK	Debasuaji Pattanaik	Debasuaji Pattanaik	Debasuaji Pattanaik	Debasuaji Pattanaik
42	1801219246	DEBASISH MALLICK	Debasish Mallik	Debasish Mallik	Debasish Mallik	Debasish Mallik
43	1801219247	DEVENDRA GOI	Devendra Goi	Devendra Goi	Devendra Goi	Devendra Goi
44	1801219248	DIGAMBAR BISWAS	Digambar Biswas	Digambar Biswas	Digambar Biswas	Digambar Biswas
45	1801219249	DIGBIJAYA DAS	Digbijaya Das	Digbijaya Das	Digbijaya Das	Digbijaya Das
46	1801219250	DILLIP KUMAR BARIK	Dillip Kumar Barik	Dillip Kumar Barik	Dillip Kumar Barik	Dillip Kumar Barik
47	1801219251	DIPESH KUMAR SATPATRY	D. R. SARPATI	D. R. SARPATI	D. R. SARPATI	D. R. SARPATI
48	1801219252	JITENDRA BEHERA	Sitendra Behera	Sitendra Behera	Sitendra Behera	Sitendra Behera
49	1801219253	KAMALA GARANAYAK	Kamal Garu	Kamal Garu	Kamal Garu	Kamal Garu
50	1801219254	KAMESHWAR MANDAL	Kamal Garu	Kamal Garu	Kamal Garu	Kamal Garu
51	1801219255	KRISHNASISH BEHERA	Kamal Garu	Kamal Garu	Kamal Garu	Kamal Garu
52	1801219256	PANKAJ KUMAR MOHANTY	Pankaj Ku. Mohanty	Pankaj Ku. Mohanty	Pankaj Ku. Mohanty	Pankaj Ku. Mohanty
53	1801219257	PAPU BEHERA	Papu Behera	Papu Behera	Papu Behera	Papu Behera
54	1801219258	PRADEEP KUMAR SETHY	Pradeep Kumar Sathy	Pradeep Kumar Sathy	Pradeep Kumar Sathy	Pradeep Kumar Sathy





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Name of the Course: Introduction to 3d Printing

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SI No.	Reg. No.	Name of the Students	Date	Date	Date	Date
55	1801219259	PRAMOD KUMAR JENA	Pramod Kumar Jena	Pramod Kumar Jena	Pramod Kumar Jena	Pramod Kumar Jena
56	1801219260	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
58	1801219262	PRAVAT KUMAR MALLICK	Pravat Kumar Mallik	Pravat Kumar Mallik	Pravat Kumar Mallik	Pravat Kumar Mallik
59	1801219263	RAGHUNATH KUMAR	Raghunath Kumar	Raghunath Kumar	Raghunath Kumar	Raghunath Kumar
60	1801219264	RAKESH BEHERA	Rakesh Behera	Rakesh Behera	Rakesh Behera	Rakesh Behera
61	1801219265	RAKESH MAJHI	Rakesh Majhi	Rakesh Majhi	Rakesh Majhi	Rakesh Majhi
62	1801219266	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
64	1801219268	SAJAL MAHAPATRA	Sajal Mahapatra	Sajal Mahapatra	Sajal Mahapatra	Sajal Mahapatra

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Programme: B Tech in MECHANICAL ENGINEERING

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Name of the Course: Introduction to 3d Printing

Course Code (if any):

Sheet No:

Sl.No.	Reg. No.	Name of the Students	Date	Date	Date	Date
1	1801219005	AMAN NIKHIL TOPNO	10/08/22	11/08/22	12/08/22	13/08/22
2	1801219009	ANKIT KUMAR NAYAK	aman nikhil topno	aman nikhil topno	aman nikhil topno	aman nikhil topno
3	1801219019	ASHUTOSH BEHERA	Pratik Kumar Nayak Ashutosh Behera	Pratik Kumar Nayak Ashutosh Behera	Pratik Kumar Nayak Ashutosh Behera	Pratik Kumar Nayak Ashutosh Behera
4	1801219032	BIKASH SAHA	Bikash Saha	Bikash Saha	Bikash Saha	Bikash Saha
5	1801219034	BIPLAB ROU	Biplab Rou	Biplab Rou	Biplab Rou	Biplab Rou
6	1801219037	CHANDAN PARIDA	Chandan Parida	Chandan Parida	Chandan Parida	Chandan Parida
7	1801219057	HAREKRUSHNA NAYAK	Harekrushna Nayak	Harekrushna Nayak	Harekrushna Nayak	Harekrushna Nayak
8	1801219061	JASHOBANTA MUNDA	Jashobanta Munda	Jashobanta Munda	Jashobanta Munda	Jashobanta Munda
9	1801219066	KHAGESWAR MALIK	Khageswar Malik	Khageswar Malik	Khageswar Malik	Khageswar Malik
10	1801219067	KULDEEP KUMAR	Kuldeep Kumar	Kuldeep Kumar	Kuldeep Kumar	Kuldeep Kumar
11	1801219089	NIHAL PRAJAPATI	Nihal Prajapati	Nihal Prajapati	Nihal Prajapati	Nihal Prajapati
12	1801219092	OMKAR RAMANUJA	Omkar Ramanuja	Omkar Ramanuja	Omkar Ramanuja	Omkar Ramanuja
13	1801219095	PADMAN HARIJAN	Padman Harijan	Padman Harijan	Padman Harijan	Padman Harijan
14	1801219103	PRAVASINI MISHRA	Pravasi Mishra	Pravasi Mishra	Pravasi Mishra	Pravasi Mishra
15	1801219106	PRITYABRATA BHUVAN	Prityabrata Bhuvan	Prityabrata Bhuvan	Prityabrata Bhuvan	Prityabrata Bhuvan
16	1801219113	RAHUL KUMAR SETHI	Rahul Kar. Sethi	Rahul Kar. Sethi	Rahul Kar. Sethi	Rahul Kar. Sethi
17	1801219114	RAHUL RAVIDAS	Rahul Ravidas	Rahul Ravidas	Rahul Ravidas	Rahul Ravidas
18	1801219124	SALUKA SUNDI	Saluka Sundi	Saluka Sundi	Saluka Sundi	Saluka Sundi
19	1801219126	SANDEEP KUMAR BEURA	Sandeep Ku Beura	Sandeep Ku Beura	Sandeep Ku Beura	Sandeep Ku Beura
20	1801219128	SANIAYA SWAIN	Sanyaya Swain	Sanyaya Swain	Sanyaya Swain	Sanyaya Swain
21	1801219134	SATYA BRATA ROU	Satya Brata Rou	Satya Brata Rou	Satya Brata Rou	Satya Brata Rou
22	1801219138	SAYUB ANSARI	Sayub Ansari	Sayub Ansari	Sayub Ansari	Sayub Ansari
23	1801219143	SHRITAM PATRA	Shritam Patra	Shritam Patra	Shritam Patra	Shritam Patra
24	1801219147	SK ZIAUDDIN	SK Ziauddin	SK Ziauddin	SK Ziauddin	SK Ziauddin
25	1801219150	SOUBHAGYA RANJAN SAHU	Soubhagya Sahu	Soubhagya Sahu	Soubhagya Sahu	Soubhagya Sahu
26	1801219157	SUBHRAJIT PATTNAYAK	Subhrajit Pattnayak	Subhrajit Pattnayak	Subhrajit Pattnayak	Subhrajit Pattnayak
27	1801219167	SWAYAMSUBHAM PANDA	Swayamsubham Panda	Swayamsubham Panda	Swayamsubham Panda	Swayamsubham Panda



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College of Engineering Bhubaneswar

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Sheet No:

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





COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

Programme: B Tech in MECHANICAL ENGINEERING

Semester: 7th

Academic Year : 2021-22

Name of the Course: Introduction to 3d Printing

Course Code (if any):

Sheet No:

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

Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
55	1801219259	PRAMOD KUMAR JENA				
56	1801219260	PRASENJIT MAITY				
57	1801219261	PRATIK KUMAR KAR				
58	1801219262	PRAVAT KUMAR MALLICK				
59	1801219263	RAGHUNATH KUMAR				
60	1801219264	RAKESH BEHERA				
61	1801219265	RAKESH MAJHI				
62	1801219266	RAKESH RATH				
63	1801219267	RUPESH KUMAR MISHRA				
64	1801219268	SAJAL MAHAPATRA				

(Handwritten signature)

PRINCIPAL
College of Engineering Bhubaneswar





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



Certificate of Completion

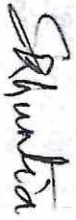
This is to certify that Mr./Ms. BIRENDRA KUMAR SAHOO, student of the Department


of Mechanical Engg. semester Seventh bearing registration number 1801219243


has successfully completed the ADD-ON Course titled Introduction to 3D Printing

conducted at College of Engineering Bhubaneswar in the academic year 2021-22

TRUE COPY


 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. BISWAJIT MOHANTY student of the Department

of Mechanical Engg. semester Seventh bearing registration number 1801219244

has successfully completed the ADD-ON Course titled Introduction to 3D Printing

conducted at College of Engineering Bhubaneswar in the academic year 2021-22

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Course-Coordinator


Principal


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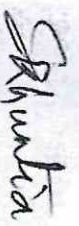
This is to certify that Mr./Ms. DEBASILPI PATTANAIK student of the Department

of Mechanical Engg. semester Seventh bearing registration number 1801219245

has successfully completed the ADD-ON Course titled Introduction to 3D Printing

conducted at College of Engineering Bhubaneswar in the academic year 2021-22

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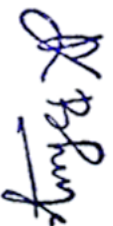
 Course-Coordinator

Course-Coordinator



 Principal

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Certificate of Completion


This is to certify that Mr./Ms. DEBASISH MALLICK, student of the Department

of Mechanical Engg. semester Seventh bearing registration number 1801219246

has successfully completed the ADD-ON Course titled Introduction to 3D Printing

conducted at College of Engineering Bhubaneswar in the academic year 2021-22

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Certificate of Completion


This is to certify that Mr./Ms. DEVENDRA GOI, student of the Department

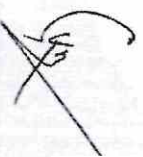
of Mechanical Engg. semester Seventh bearing registration number 1801219247


has successfully completed the ADD-ON Course titled Introduction to 3D Printing

conducted at College of Engineering Bhubaneswar in the academic year 2021-22

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