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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai, T.N - 600 073.

Ref: BIHER/BIST/Civil//Spl/2021

Date: 01/04/2021

CIRCULAR

Many a times, the defined skill sets that are being imparted to students today with Programme Specific Objectives in educational institutions become redundant sooner than later due to rapid technological advancements. It is important for higher education institutions to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes.

Hence a Value Added Course is offered by Department of School of Civil and Infrastructure Engineering, Bharath Institute of Higher Education & Research. The course offered is Course on 3D Printing with the duration of 30 hours (Two hour per day) and commences from 11/02/2021 to 23/03/2021(online).

Eligibility: Course is open for UG Students for Department School of Civil and Infrastructure Engineering.

Registration:

The registration form which is available in the university website should be duly filled by the participants and to be submitted to the Coordinator at least 5 days before the commencement of course.

Contact:

Ms.B.Kaviya

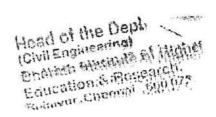
Assistant Professor / School of Civil and Infrastructure Engineering.,

Course Coordinator

Bharath Institute of Higher Education & Research.

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SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING VALUE ADDED COURSE - COURSE ON 3D PRINTING STUDENTS NAME LIST

SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING VALUE ADDED COURSE - COURSE ON 3D PRINTING

| SI.NO | Reg No | Name of the students | E-Mail ID | |
|-------|--------------------------------------|-------------------------------|---------------------------|--|
| 1 | U15CE001 AADARSH KUMAR BHARDWAJ S | | Aadha2012@gmail.com | |
| 2 | U15CE002 | ABDUL RAHMAN S A | raman18@gmail.com | |
| 3 | U15CE003 | ADITYA KUMAR RAJ | kumar147@gmail.com | |
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| 5 | U15CE005 | ANUJ YADAV | anuj yadav 406@ Gmail.com | |
| 6 | U15CE006 | ARAVINDAN D | arvnf@gmail.com | |
| 7 | U15CE007 | ARUN K | arun505@gmail.com | |
| 8 | U15CE008 | ARUN YOMSO | yomso316@gmail.com | |
| 9 | U15CE009 | AVULA UDAY KIRAN | udhyakiran46@gmail.com | |
| 10 | U15CE010 | BADUGU MANI BABU | manibabu949@gmail.com | |
| 11 | U15CE011 | BAJOPSKHEMLANG RYNTATHIANG | rtytaniang333@gmail.com | |
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| 13 | U15CE013 | BELLAMKONDA LEELA MOHAN | mohan1999@gmail.com | |
| 14 | U15CE014 | BOYA NARESH | oya naresh v30@gmail.com | |
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| 16 | U15CE016 | CHALLA BHAGAVAN | bhagavan 91@gmail.com | |
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| 19 | U15CE020 | DHANUSH KUMAR P | kumar2000@gmail.com | |
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| 22 | U15CE023 | DIPENDRA KUMAR YADAV | kumar8264@gmail.com | |

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|----|----------|-----------------------------------|---------------------------|--|
| 24 | U15CE025 | GADHIRAJU NARENDRA VARMA | navarma@gmail.com | |
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| 26 | U15CE027 | GANESH R | ganesh62@gmail.com | |
| 27 | U15CE028 | GARAPATI LALITHKISHOR | lathi4181@gmail.com | |
| 28 | U15CE029 | GOLLAPALLI VISHNUVARDHAN REDDY | rp7842197222@gmail.com | |
| 29 | U15CE030 | GOWTHAM L | gowtham664@gmail.com | |
| 30 | U15CE031 | GUDDETTI KEERTHANA | keerthina689@gmail.com | |
| 31 | U15CE032 | HARIS REYAZ | Hari56@gmail.com | |
| 32 | U15CE033 | HEMACHANDRAN | hemaran@gmail.com | |
| 33 | U15CE034 | IAISHAH SUCHIANG | UCHIANG192@yahoo.com | |
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| 40 | U15CE041 | KAMALESH KUMAR A | kamalkumr@gmail.com | |
| 41 | U15CE042 | KANGARI RANJEETH REDDY | Reddy56@gmail.com | |
| 42 | U15CE043 | KAPOOR M | Kapoor95@gmail.com | |
| 43 | U15CE044 | KAVITHA T | Sairam43@gmail.com | |
| 44 | U15CE045 | KISHOTH R | Kisthori95@gmail.com | |

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Contact Institute of Higher
Education & Research
Salalyur, Chennai - 600 073.



Topic: Course on 3D Printing

Type of Course: value added course / UG

Department of school of Civil and infrastructure Engineering

Pre-Requisites: Auto CAD

Course Duration: 30 hours (11 Feb' 2021)

Intended Audience: Civil Engineering Students

Industries Applicable To: All companies that deal with the Civil infrastructure development

Coordinators: B.Kaviya

Objective:

- a) Demonstrate knowledge of key historical factors that have shaped manufacturing over the centuries
- b) Explain current and emerging 3D printing applications in a variety of industries
- c) Describe the advantages and limitations of each 3D printing technology
- d) Evaluate real-life scenarios and recommend the appropriate use of 3D printing technology
- e) Identify opportunities to apply 3D printing technology for time and cost savings
- f) Discuss the economic implications of 3D printing including its impact on startup businesses and supply chains
- g) Design and print objects containing moving parts without assembly This course aims to make the students well-versed with the latest scheduling techniques in construction projects.

COURSE OUTLINE:

3D printing opens up inspiring possibilities and opportunities, like the ability to produce a fully functional "machine" in one print. It is the only manufacturing process that can interlock parts within parts to produce functioning closed systems that require no assembly. Furthermore, because 3D printers produce objects directly from computer models, users can immediately hold, evaluate, test and use their ideas – and share them digitally with the world. The Internet revolutionized the creation, modification and dissemination of digital media. Now, 3D printing makes that possible for physical objects. 3D printing is reshaping the fields of art, design, architecture, science, technology and engineering by revolutionizing how things are made. Recognizing education as the foundation for career readiness, a means to drive future innovation, we're providing this curriculum completely free. Use it modularly to supplement an existing class, or teach an entirely new course in 3D printing.

Value Added Course

Course on 3D Printing

Content of Syllabus

| S.No. | Syllabus Details | No. of Lecture hrs | Time | Date | Lecture name |
|-------|-----------------------------|--------------------------|----------------------|-------------|-----------------|
| 1 | Introduction to Projects | 1 | 10.45 am to 11.45am | 11-02-20-21 | Ms.B.Kaviya |
| 2 | Introduction to Projects | 1 | 03.00 pm to 04.00 pm | 12-02-20-21 | Ms.B.Kaviya |
| 3 | Introduction to 3D Printing | 1 | 10.45 am to 11.45am | 15-02-20-21 | Ms.B.Kaviya |
| 4 | Introduction to 3D Printing | 1 | 03.00 pm to 04.00 pm | 16-02-20-21 | Ms.B.Kaviya |
| 5 | What is a Mesh? | 1 | 10.45 am to 11.45am | 17-02-2021 | Ms.B.Kaviya |
| 6 | What is a Mesh? | 1 | 03.00 pm to 04.00 pm | 18-02-20:21 | Ms.B.Kaviya |
| 7 | Ctrl+P | 1 | 10.45 am to 11.45am | 19-02-20:21 | Ms.B.Kaviya |
| 8 | Ctrl+P | 1 | 03.00 pm to 04.00 pm | 22-02-20-21 | Ms.B.Kaviya |
| 9 | Gear Systems Part I | 1 | 10.45 am to 11.45am | 23-02-20-21 | Ms.B.Kaviya |
| 10 | Gear Systems Part I | 1 | 03.00 pm to 04.00 pm | 24-02-20-21 | Ms.B.Kaviya |
| 11 | Gear Systems Part II | 1 | 10.45 am to 11.45am | 25-02-20-21 | Ms.B.Kaviya |
| 12 | Gear Systems Part II | 1 | 03.00 pm to 04.00 pm | 26-02-2021 | Ms.B.Kaviya |
| 13 | Dynamic Surfaces and Chains | 1 | 10.45 am to 11.45am | 29-02-2021 | Ms.B.Kaviya |
| 14 | Dynamic Surfaces and Chains | 1 | 03.00 pm to 04.00 pm | 01-03-20-21 | Ms.B.Kaviya |
| 15 | The Future of Fabrication | 1 | 10.45 am to 11.45am | 02-03-20-21 | Ms.B.Kaviya |
| 16 | The Future of Fabrication | 1 | 03.00 pm to 04.00 pm | 03-03-20-21 | Ms.B.Kaviya |
| 17 | Midterm Exam | 1 | 10.45 am to 11.45am | 04-03-20-21 | Ms.B.Kaviya |
| 18 | Midterm Exam | 1 | 03.00 pm to 04.00 pm | 07-03-20-21 | Ms.B.Kaviya |

| 19 | 4D Printing | 1 | 10.45 am to 11.45am | 08-03-2021 | Ms.B.Kaviya |
|----|------------------------------|---|----------------------|------------|-------------|
| 20 | 4D Printing | 1 | 03.00 pm to 04.00 pm | 09-03-2021 | Ms.B.Kaviya |
| 21 | 4D Printing | 1 | 10.45 am to 11.45am | 10-03-2021 | Ms.B.Kaviya |
| 22 | Parametric Design | 1 | 03.00 pm to 04.00 pm | 11-03-2021 | Ms.B.Kaviya |
| 23 | Parametric Design | 1 | 10.45 am to 11.45am | 14-03-2021 | Ms.B.Kaviya |
| 24 | Parametric Design | 1 | 03.00 pm to 04.00 pm | 15-03-2021 | Ms.B.Kaviya |
| 25 | Prototype Printing | 1 | 10.45 am to 11.45am | 16-03-2021 | Ms.B.Kaviya |
| 26 | Prototype Printing | 1 | 03.00 pm to 04.00 pm | 17-03-2021 | Ms.B.Kaviya |
| 27 | Prototype Printing | 1 | 10.45 am to 11.45am | 18-03-2021 | Ms.B.Kaviya |
| 28 | Prototype Printing & Testing | 1 | 03.00 pm to 04.00 pm | 21-03-2021 | Ms.B.Kaviya |
| 29 | Prototype Printing & Testing | 1 | 10.45 am to 11.45am | 22-03-2021 | Ms.B.Kaviya |
| 30 | Prototype Printing & Testing | 1 | 03.00 pm to 04.00 pm | 23-03-2021 | Ms.B.Kaviya |

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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

CERTIFICATE OF PARTICIPATION

by Ms.B.Kaviya., Assistant Professor, Organized by School of Civil & Infrastructure Research, has participated in value added course on 'Course on 3D Printing' presented Engineering, Bharath Institute of Science & Technology, BIHER from 11.02.2021 To This is to Certify that Boya NARESH , from Bharath Institute of Higher Education and 23.03.2021

Coordinator

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VALUE ADDED COURSE

Feedback Form

Event Name: course on 3D Printing

Event Venue: Date: 11/2/21 to 23/2/2021

Name of participant: Arun . K.

1. How useful did you think this event was for you?

(Please circle the appropriate number where 1 = not at all useful and 5 = extremely useful)

| 1 | 2 | 3 | 4 | 15 |
|---|---|---|---|----|
| | | | | |

2. Value added course is useful and well organized.

| NO |
|----|
| |

3. Did you receive all the information you required at this Venue?

| YES-/ | NO |
|-------|----|
| | |

4. Would you like to attend any further Training Courses VAC

| YES | NO |
|-----|----|