DIRECTORATE OF
CONTINUING EDUCATION
BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY (BUET)

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No. DCE- 007(212)/ Date: 15/10/2023

Announcement of Short Course on 'SolidWorks - Product Design & Prototyping', 14 - 18 November 2023
Organized by Directorate of Continuing Education (DCE), BUET.

Dear Sir/Madam,
We have the pleasure to inform you that a 4-day short course on '**SolidWorks - Product Design & Prototyping'** is going to be organized by the Directorate of Continuing Education (DCE), BUET on 14 - 18 November 2023.

With modern 3D design software development, the Product Designing and Manufacturing process has become quite easier. Adopting Industrial Revolution 4.0 more technology, such as CAD/CAM, 3D Printing, and Simulation, has been introduced. 3D Computer-Aided Design and Manufacturing (CAD/CAM) Software allows designers to test the objects by simulating real-world conditions. Designer able to design and manufacture prototypes or finished products from a simple object to a complex geometry. 3D printing technology enables the rapid production of prototypes (rapid prototyping) of any ideas that come from engineering, scientific, technical and industrial needs. As geometric complexity is not a limitation in 3D Printing there is a massive growth of this technology in global sense.

The objective of this workshop is to provide participants with a basic understanding of 3D Software, CAD/CAM, 3D Printing and Product Simulation; its potentials and possibilities, tools and materials, and use of the 3D printer (hands-on) available during the workshop. By the end of the workshop, each participant will have created a ready-to-print file they made themselves - whether from scratch or by customizing an existing design.

Highly qualified, professionally trained, reputed, and experienced resource persons in the related areas, with ample theoretical and practical knowledge and current information, have been invited to conduct this course.

The registration fee for this short course is **TK. 15000/- (Taka fifteen thousand only)** as per person to be paid in advance, through Pay-Order or Demand draft, in favor of **"Director, BRTC, BUET".** Course registration fee may also be electronically deposited at Savings Account No. 4404034173888, Account Name: **Director, Directorate of Continuing Education (DCE), Sonali Bank Ltd., BUET Branch, Dhaka**. Course Fee includes all costs of printed lecture instructions, comprehensive materials, refreshments, certificates, etc., excludes VAT & TAX.

Seats are limited and the application /nomination would be selected on a First Come First served basis, **Registration Deadline is 12th November 2023**.

For further information, please contact to DCE office, BUET, Cell: **01303183113,** Tel: **58610738**, PABX. 55167100 Ext. 7848, E-mail: info@dce.buet.ac.bd.You may also visit our official website: https://dce.buet.ac.bd

We would appreciate it if you could kindly participate and/or nominate the concerned official(s) from your esteemed organization in this proposed short course.

Thank You

For Registration and Details, Please Scan

Prof. Dr. Mohammad Nasim Hasan
Director, Directorate of Continuing Education (DCE)
Bangladesh University of Engineering and Technology
Mail: info@dce.buet.ac.bd

November 2023							
SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

CONTACT

Director
Directorate of Continuing Education (DCE)
BUET, Dhaka-1000

Tel: 02 58610738
PABX: 02 55167228-57 ext. 7848, 7452
Cell: 01303183113
Email: info@dce.buet.ac.bd

About DCE

DCE established in **1995 at BUET**, a platform for decentralized and adaptive learning to bridge the gap between Professionals and Academicians, promotes pedagogical development with a combined experience of Academicians and Professionals and offers distance training opportunities. So far, **205** short courses/training workshops have been offered to serve more than **10,000** professionals.

LOGISTICAL DETAILS

Prerequisites: No prior experience required; familiarity with CAD is beneficial.

Equipment Requirement: Participants are required to bring laptops with SOLID WORKS pre-installed.

RESOURCE PERSON

Experts from both **Academic and Professional** domains will conduct the proposed short course. For details please visit: dce.buet.ac.bd

DURATION

10 Nov- 24 Nov 2023 (28 Hrs)
(Friday, Saturday & Monday in each week (7 days)

LANGUAGE

English and Bangla

CERTIFICATION

Certificate of Participation will be provided.

VENUE

Directorate of Continuing Education (DCE), 3rd Floor, Institute Building, BUET, Polashi, Dhaka-1000. (**near Dr. M A Rashid Student Hall, BUET and BUET Gymnasium**)

REGISTRATION FEE

BDT 12,000/- per Person (Tk. Twelve Thousand Only)
The fee will cover printed lecture instructions, comprehensive materials, refreshments, certificates, etc.

PAYMENT

Registration Fee is to be paid in advance payable through Pay Order/Demand Draft (DD) in favor of **Director, BRTC, BUET** or electronically deposited at Savings **Account No. 4404034173888**, **Account Name**: Director, Directorate of Continuing Education (DCE) Sonali Bank Ltd., BUET Branch, Dhaka.

Short Course
SolidWorks-Product Design & Prototyping

10-24 November 2023
BUET, Dhaka

Organized by
Directorate of Continuing Education (DCE)
Bangladesh University of Engineering and Technology
Dhaka-1000

For Registration and Details, Please Scan

With the development of modern 3D design software, at recent Product Designing and Manufacturing process becoming quite easier. Adopting with IR4.0 (Industrial Revolution 4.0) more technology has introduced such CAD/CAM, 3D Printing, and Simulation. 3D Computer Aided Design and manufacturing (CAD/CAM) Software allows designers to test the objects by simulating real-world conditions. Designer able to design and manufacture prototypes or finished products from a simple object to a complex geometry. 3D printing technology enables the rapid production of prototype (rapid prototyping) of any ideas which come from engineering, scientific, technical and industrial needs. As geometric complexity is not a limitation in 3D Printing so there is a massive growth of this technology in global sense. The objective of this workshop is to provide participants with a basic understanding of 3D Software, CAD/CAM, 3D Printing and Product Simulation; its potentials and possibilities, tools and materials, and use the 3D printer (hands-on) available during the workshop. By the end of the workshop, each participant will have created a ready-to-print file they made themselves - whether from scratch or by customizing an existing design.

WHO SHOULD ATTEND?

The content of the training workshop is designed for

- Entrepreneurs
- Engineers
- Architects
- Interior designer
- Draftsman
- Fresh graduates
- Postgraduate students
- Mid & Senior level UG students
- Anyone interested

PROGRAM OVERVIEW

Contents of the program are:

- **Sketch, 3D Modeling & View Layout**
- Overview on CAD/CAM, SolidWorks Interface, 2D & 3D Sketching.
- Machine Component Design (3D Modeling)
- Direct Editing & Advance Features
- View Layouts, Evaluating & Dimensioning
- **Surface Modeling**
- Transformation from Surface to Solid Geometry
- Irregular & Complex Shapes Design
- Using Advanced Surface Tools
- **Assembly Modeling**
- Component Standard, Advance & Mechanical Mate
- Component Different Pattern in Assembly
- BOM Calculation & Animation Creating from Assembly Product.
- **Motion Analysis**
- Motion Analysis with Wizard, Motor, Spring, Gravity Parameters.
- **Sheet Metal Forming & Designing**
- Basic CAM Programing and Generating DXF File for Laser Cutting
- **Moldable Product Design**
- Injection Molding-Design Criteria
- Thickness, Undercut & Draft Analysis
- Creating Parting Lines, Parting Surfaces & Core-Cavity Part.
- **Simulation**
- Product (Heat Exchanger) Modeling
- Product Stress-Strain Analysis
- Flow Simulation
- **DFM and 3D Printing**
- Overview of Modern Manufacturing Technology
- Understanding Basic 3D Printing and its Material.
- Part Design & G-Code Generation for 3D Printing
- **Operation of "ENDER-3 PRO" 3D Printer**

Seats are limited and the selection procedure will be First Come First Serve basis.

REGISTRATION FORM

Short Course on

SolidWorks-Product Design & Prototyping

DCE, BUET

Please complete the registration form in BLOCK LETTERS and return it to the address overleaf.

Name: ----------

Affiliation: ----------

Company Name: ----------

Address: ----------

Cell Phone: ----------

Email:

Payment:

- Pay Order/ Demand Draft (DD)
- Online Banking

Please attach the original copy of the payment.

Details of Pay Oder/Demand Draft:

Signature: ----------

Date: ----------