CAREER DEVELOPMENT CENTRE



Date: 28th January 2020

Subject: Schedule for Technical Training- VAT 87: Proteus

Attention: Students of B. Tech 4th & 6th Semester (ECE & EE Students)

The students are hereby informed that the Technical Training – Proteus will be held from 8th Feb 2020 – 22nd Feb 2020 for the students of B.Tech 4th & 6th Semester (ECE & EE).

Note: It is mandatory for above mentioned students to attend the training.

Mr. Gaurav Singh Head - CEDG d- CDC Career Development Cell

DIT University. Dehradun

To:

• All Deans / Directors

With the request to bring the above to the notice of the students

• HoDs

Head CDC

Copy to:

• Chairman

Chancellor

Vice Chancellor

For information please

DIT University, Dehradun

Pro Vice Chancellor_



Technical Training-Proteus (VAT 87)

Course:-B.Tech- ECE & EE 2nd & 3rd Year

Venue:- Computer Lab (Chanakya)

Organized By- Department of ECE

Date:- 8th Feb 2020 - 22nd Feb 2020

Duration:-30 Hours

Timings:-4:00 PM to 6:00 PM

Introduction to Proteus:

 Proteus Design Suite is a software tool set, mainly used for creating schematics, simulating Electronics & Embedded Circuits and designing PCB Layouts.

- Proteus ISIS is used by Engineering students & professionals to create schematics & simulations of different electronic circuits.
- Proteus ARES is used for designing PCB Layouts of electronic circuits.
- It's available in four languages i.e. English, Chinese, Spanish & French.

Why use Proteus:

- Proteus is quite lenient in circuit designing and it works on ideal conditions i.e. if you don't add pull
 up resistors in Proteus simulation, then it won't give garbage value.
- Proteus is also used for PCB designing, we use **Proteus ARES** for that. (We will discuss it in upcoming lectures)
- Proteus is also used for designing/testing programming codes for different Microcontrollers i.e.
 Arduino, PIC Microcontroller, 8051 etc.

In Embedded projects, we need to design a programming code for Microcontrollers and for designing such codes you have to perform a lot of testing, which involves uploading code to Microcontroller. So, in such projects, Proteus is a great relief. Let's say, you have to print some strings on 20×4 LCD, then its quite annoying to burn the Microcontroller several times for typographical errors. Instead, design a circuit in Proteus and test your code in the simulation and once you are sure that you are getting perfect output then burn your PIC Microcontroller and test it on real hardware. Quite easy and handy.

Requisite:

The program is designed for students or professionals who are:

- Having a Diploma, BE / B.Tech or equivalent in domains such as Automotive, Mechanical, EEE, ECE, Instrumentation, Mechatronics, and Aeronautics.
- Designing enthusiasts (No academic qualification mandatory)

Registrar DIT University, Dehradun Working in industries such as Automotive, Auto component, Design, Manufacturing, etc.

Training Outcome:

Students benefited from exposure to professional grade tools with an intuitive user interface and a quick **learning** curve. From China and India, through South America and the USA, and across the UK and Europe, the **Proteus** Design Suite is trusted as the tool of choice for embedded engineering and electronics learning.

Syllabus:

First Step with Proteus

- Creating a new project
- User interface & Navigation
- Edit the Tittle Block
- Select and place components
- Components with simulator model
- Set keyboard Shortcuts.
- Manage Components.

Schematic Design

- Schematic Circuit
- Create a Schematic Library
- Creating the Connector
- Creating the Resistors
- Creating the Potentiometer
- Creating the 555 Timer
- Connecting the Schematic
- Adding Tags Terminal Modes
- Finishing the Schematic

PCB Layout

- Switching from Schematic to PCB Layout
- Basic PCB Layout Terminology
- Create a Footprint Library
- Creating the resistors footprints
- Creating the Potentiometer Footprints
- Creating the Diode Led Footprint
- Creating the Connector Footprint
- Creating the 555 Timer Footprint
- Placing the footprints
- Creating the PCB Border
- Design Rule Managers
- Authrouting

- Manual Routing Tracks
- Manual Routing- Vias
- Teardrop
- Power plane Generator
- Adding text and Logo
- Placing Holes

3D Visualization

- 3D navigation
- Adding the 3D Components
- Setting the 3D PCB
- Where to find 3D components
- Downloading 3D model

Output Files

- Exporting PDF Schematic
- Exporting PDF Layers
- Custom PDF for Printing
- Generate Gerber Files
- Bill of Materials BOM
- Proteus Gerber Viewer
- Free Gerber Viewer Gerby
- Project based learning LPKF E44 PCB prototyping machine.
- Group Project work.



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Annexure - II

Value added course Details (Academic Year: 2019-20)

VAT Course Name: Proteus Training

VAT Code: VAT 87

Duration in Hours: 30

Number of Students Enrolled: 124

 Number	of Stuc	lents (Comple	ted:	122°

<u> </u>	ivumber of Students	Completed: 122		ee ive			
	Grades: G= GOOD; S = Satifactory; P = Poor; W = Withdraw						
Student ID	Student Name	Program/Course	Year	**************************************			
180104015		BTEE	2nd Year	S			
190104911		BTEE	2nd Year	S			
190103900		BTECE	2nd Year	G			
170103005		BTECE	3rd Year	S			
190104909	TRILOK SINGH GAIRA	BTEE	2nd Year	S			
190104903	NIRAJ KUMAR THAKUR	BTEE	2nd Year	S			
190104902	PRAKHAR BHIDOLA	BTEE	2nd Year	G			
190104905	SHIVAM CHAMOLI	BTEE	2nd Year	G			
190104904	ALI UMMAR FARUK	BTEE	2nd Year	S			
170103042	DIKSHANT SINGH	BTECE	3rd Year	Р			
170104026	AKLESH MISHRA	BTEE	3rd Year	S			
170103036	TANAY PANDA	BTECE	3rd Year	S			
190103901	SAKSHAM PANDEY	BTECE	2nd Year	S			
190104910	PRABHAT SAGAR	BTEE	2nd Year	S			
180103002	PRERNA SINGH	BTECE	2nd Year	G			
190104901	UDITANSHU SINGH	BTEE	2nd Year	S			
170104014	KUSHAGRA KUMAR	BTEE	3rd Year	S			
170103040	AKASH KAUSHIK	BTECE	3rd Year	S			
170103051	MOKSH MANCHANDA	BTECE	3rd Year	G			
180104900	SAMSON DEBBARMA	BTEE	3rd Year	S			
180104901	DAVID KALAI	BTEE	3rd Year	S			
170104011	PRANAV CHAUHAN	BTEE	3rd Year	G			
170103022	GAURAV KUMAR .	BTECE	3rd Year	S			
180104006	SHIVANI RUDI	BTEE	2nd Year	S			
190104907	SURYAKANT BAHUGUNA	BTEE	2nd Year	G			
180103019	RUDRA PRATAP	BTECE	2nd Year	S			
170103017	MANIK SEN	BTECE	2nd Year	S			
170103027	ANKIT SEMWAL	BTECE	3rd Year	S			
180104013	ROMIT GUPTA	BTEE	2nd Year	S			
170103031	HARPREET SINGH	BTECE	3rd Year	S			
180103020	RAHUL RAJ	BTECE	2nd Year	S			
170103018	VARUN SINGH BISHT	BTECE	3rd Year	G			
170103028	MUSKAN BHATIA	BTECE	3rd Year	S			
170103010	PRATEEK RANA	BTECE	3rd Year	S			
170103023	ASHUTOSH SINGH	BTECE	3rd Year	G			
170103039	ANUJ PURI	BTECE	3rd Year	S			
170103025	AKASHDEEP CHAKRABORTY	BTECE	3rd Year	S			
170103048	SYED SHAVEZ ZAMIR RIZVI	BTECE	3rd Year	S			
170103002	KUNAL TYAGI	BTECE	3rd Year	G			
170104004	VIVEK KUMAR	BTEE	3rd Year	G R			

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170104012 SAMARTH KAUSHIK BTEE 3rd Year S	5
180104012 SOMYA MATHUR BTEE 2nd Year S	5
180103011 UDAY KUMAR SINGH BTECE 2nd Year G	
180104009 MUGUNDHAN NALLATHAMBI BTEE 2nd Year S	5
170103030 MANSI DIMRI BTECE 3rd Year S	;
180103015 AYUSH DUBEY BTECE 2nd Year S	;
170103029 SANKALP KASHYAP BTECE 3rd Year G	ì
170103024 ASHISH RAJ BTECE 3rd Year G	ì
180103009 ISHIKA JAIN BTECE 2nd Year S	
160103056 RITIK YADAV BTECE 3rd Year S	
180104003 MANSI GUPTA BTEE 2nd Year S	
180103008 ISKAND GAUR BTECE 2nd Year S	
170103012 PRASHANT SAMANT BTECE 3rd Year S	
170104021 SATYAM DABRAL BTEE 3rd Year S	
170104010 DHEERAJ PANGTI BTEE 3rd Year G	ì
180104007 RASHI KUMARI BTEE 2nd Year S	
180103010 MITAKSHA AGGARWAL BTECE 2nd Year S	
180104016 ABHINAV CHANDEL BTEE 2nd Year S	1
190104906 AYUSH SINGH BTEE 2nd Year G	1
180103006 MAINAK KAR BTECE 2nd Year S	
180104001 DIVYAM SHARMA BTEE 2nd Year S	
190104908 DEVARTH SHARMA BTEE 2nd Year G	i
170104017 HIMANSHU GUPTA BTEE 3rd Year S	
170103013 SURAJ SINGH RAUTELA BTECE 3rd Year S	
180104005 BIBHAKAR KUMAR SINGH BTEE 2nd Year G	
180104002 MOHD AMAAN HAIDER BTEE 2nd Year S	
180103016 KISHAN KUMAR BTECE 2nd Year S	
180104008 ADITYA PUNDIR BTEE 2nd Year S	

Registrar
DIT University, Dehradun