

PRATHYUSHA ENGINEERING COLLEGE
REQUEST FOR APPROVAL FOR CONDUCT OF ADD-ON/ CERTIFICATE COURSES

Date: 11.6.2019

From

The Head of the Department,
Department of Mechanical Engineering,
Prathyusha Engineering Colleg Thiruvallur – 602025

To

The Principal
Prathyusha Engineering College,
Thiruvallur – 602025

Respected Sir,

Sub: Request for conduct of Add-on /Certificate Courses- Reg

With reference to the suggestions provided by the Academic Council and the Academic Advisory Committee, it is proposed to conduct the following add-on/certificate courses for the academic year 2019-2020.

S.No.	Type of the course	Name of the Add on Course	Beneficiaries	Semester to be conducted	Venue of conduct	Duration (Hrs)
1	Add-on Course	Catia Modeling	IV Year	Odd & Even Semester	MoU Block	60
2.	Certificate Programme	PRO-E & ANSYS	III Year	Even Semester	CIVIL MECH BLOCK	45
3.	Certificate Programme	CNC TRAINING IN MTAB MACHINE	III Year	Even Semester	MT-2 LAB	45

The following additional details are attached for your kind perusal and approval please.

1. Schedule of the program
2. List of resource persons
3. Certificate Sample
4. Sample of Brochure
5. Content of each programme

Thanking you.

Regards


Head of the Department

✓ Approved/Not Approved


PRINCIPAL

PRATHYUSHA ENGINEERING COLLEGE- TIRUVALLORE
DEPARTMENT OF MECHANICAL ENGINEERING

NAME OF THE CLUB: CATIA V5

FACULTY INCHARGES: Mr.K.SIVARAMA KRISHNAN/Mr.R.RAGAVENDIRAN.

PROGRAMME SCHEDULE (LESSON PLAN)

YEAR: IV

SEM: VII (ODD)

ACADEMIC YEAR: 2019-20

S.No:	DATE	TOPICS	MODE OF DELIVERY	REMARKS
1	17.6.'19	Introduction to Catia setting,security context,PLM	TUTORIAL	sketcher
2	18.6.'19	Introduction to sketcher,design intent,tool bars	TUTORIAL	
3	19.6.'19	Geometry creation,analysis,constraints,dimensioning	TUTORIAL	
4	20.6.'19	Introductio to part modeling,parents child relation	TUTORIAL	solid modeling
5	21.6.'19	Solid creation tools,features based design	TUTORIAL	
6	24.6.'19	Dress up & datum features ,Pattern ,multi pad,boolian	TUTORIAL	
7	25.6.'19	Revison & Practice session	TUTORIAL	
8	26.6.'19	Duplication features(mirror,rotation,translation)	TUTORIAL	
9	27.6.'19	Editing features, resolving errors,creating materials	TUTORIAL	
10	28.6.'19	Apply materials to solid model,surface based features	TUTORIAL	
11	1.7.'19	Revison & Practice session on sketcher&Part modeling	TUTORIAL	
12	2.7.'19	Introduction to generative shape design, wire frame	TUTORIAL	Surface design
13	3.7.'19	Surface craetion by extrude,revolve,sphere	TUTORIAL	
14	4.7.'19	Transfromation features,reference elements,	TUTORIAL	
15	5.7.'19	surface creations surface operations by sweep, extractions	TUTORIAL	
16	8.7.'19	offset surface,fill,multi section ,blending of surface.	TUTORIAL	
17	9.7.'19	Apply materials to surface model,surface based features	TUTORIAL	
18	10.7.'19	Recalling & rivision practice on surface modeling tools.	TUTORIAL	
19	11.7.'19	Sheet metal design parameters,walls,wall on edge	TUTORIAL	sheet metal
20	12.7.'19	Extrusion over lapping, bend & unbend operations	TUTORIAL	
21	15.7.'19	Punch & die creations	TUTORIAL	
22	16.7.'19	Flange,hemming, tear drop operations on sheet	TUTORIAL	
23	17.7.'19	Cut, hole pattern operations on sheet metals	TUTORIAL	
24	18.7.'19	Introduction to assembly conept top down, bottom up	TUTORIAL	Assembly
25	19.7.'19	Importing components to assembly window,exploding	TUTORIAL	
26	22.7.'19	Assembly constarints with various degrees of freedom	TUTORIAL	
27	23.7.'19	Replace components,manipulation,bom,rendering of assembly	TUTORIAL	
28	24.7.'19	Introduction to drafting tools,types of drafting	TUTORIAL	Drafting
29	25.7.'19	Positioning of views,projection ,sections,clipping,details	TUTORIAL	
30	26.7.'19	Drawing sheets sizes,dimensioning,annotations,tolerance	TUTORIAL	
31	29.7.'19	BOM generation,balloons,back ground	TUTORIAL	
32	30.7.'19	DESIGN CONTEST ON SOLID MODELING	TUTORIAL	

PRATHYUSHA ENGINEERING COLLEGE THIRUVALLUR
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR (2019-2020)

The Lesson plan for PRO-E and ANSYS Add on courses mentioned as below as table

S.No:	DATE	TOPICS	MODE OF DELIVERY
1	01/03/2020	Introduction to About the Pro/Engineer Wildfire 2.0	TUTORIAL
2	01/06/2020	What is Pro/ENGINEER®?	TUTORIAL
3	01/07/2020	INDUSTRY EXPERT INTRACTION	PPT
4	01/09/2020	DESIGN CONTEST PRO E DOMAIN	PPT
5	01/10/2020	Conventions Used in this Tutorial	TUTORIAL
6	13/01/2020	Introduction to Pro/E WILDFIRE	TUTORIAL
7	20/01/2020	General Steps of the Finite Element Method	TUTORIAL
8	22/01/2020	Starting Pro/E	TUTORIAL
9	24/01/2020	Complete the Housing top	TUTORIAL
10	27/01/2020	Creating a 2-D Engineering Drawing	TUTORIAL
11	28/01/2020	Limitations of FEA	TUTORIAL
12	29/01/2020	Add dimensions	TUTORIAL
13	30/01/2020	Creating the Disk-Brake Assembly	TUTORIAL
14	31/01/2020	Six Common Assembly Constraints	TUTORIAL
15	02/01/2020	Add Color and Create an Exploded View	TUTORIAL
16	02/03/2020	Create a Cutout View	TUTORIAL
17	02/05/2020	Animation in Pro/ENGINEER Wildfire 2.0	TUTORIAL
18	02/07/2020	DESIGN CONTEST PRO E DOMAIN	PPT
19	02/10/2020	Background	TUTORIAL
20	02/12/2020	Creating Assembly	TUTORIAL
21	14/02/2020	Creating the Motion Sequence	TUTORIAL
22	17/02/2020	Prepare the Model	TUTORIAL
23	19/02/2020	Start Pro/MECHANIC	TUTORIAL
24	24/02/2020	Variable Sweep Creation of Free Form Surface	TUTORIAL
25	27/02/2020	More Complex Surface and Part Mode	TUTORIAL
26	03/03/2020	Design parameter sensitivity study	TUTORIAL
27	03/06/2020	Automated Generation of CNC Tool Paths Using Pro/Manufacturing	TUTORIAL
28	03/11/2020	application of solid modeling	TUTORIAL
29	03/12/2020	Modifying Sheetmetal Models	TUTORIAL
30	13/03/2020	Adding Model Details and Tolerance	TUTORIAL
31	01/03/2020	Structure and Skeletons	TUTORIAL
32	03/03/2020	Prepare the Model	TUTORIAL
33	03/03/2020	Measuring, Inspecting Models	TUTORIAL

PRATHYUSHA ENGINEERING COLLEGE THIRUVALLUR

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR (2019-2020)

The Lesson plan for CNC Training Add on courses mentioned as below as table

S.No.	DATE	TOPICS	MODE OF DELIVERY
1	12-11-2019	Demo of parts of CNC machine -control switches	Practice with machine
2	13/12/2019	Demonstration of CNC lathe and milling parts	Practice with machine
3	14/12/2019	Demo of parts of CNC machining center	Practice with machine
4	16/12/2019	Work setting on machine	Practice with machine
5	19/12/2019	Safety: - its importance	Practice with machine
6	20/12/2019	G & M Codes, Machine Axes	Practice with machine
7	27/12/2019	Tools & Equipment for Basic Training	Practice with machine
8	01-03-2020	Tools & Equipment for Basic Training	Practice with machine
9	01-07-2020	Absolute & incremental system	Practice with machine
10	01-09-2020	CNC turning center operation in various modes	Practice with machine
11	01-10-2020	Machining parts on CNC lathe with parallel, taper, step, radius turning, grooving and threading of different pitches	Practice with machine
12	13/1/2020	To perform Change offsets	Practice with machine
13	15/1/2020	Verify accuracy of machined workplace.	Practice with machine
14	17/1/2020	Adjust speeds and feeds for optimum performanc	Practice with machine
15	20/1/2020	Identify and correct program errors	Practice with machine
16	22/1/2020	Perform tool axis operations (drilling, boring, reaming	Practice with machine
17	24/1/2020	Perform turning operations	Practice with machine
18	27/1/2020	Perform forming operations	Practice with machine



PRATHYUSHA ENGINEERING COLLEGE

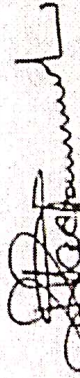
ESTD. 2001

CERTIFICATE OF PARTICIPATION

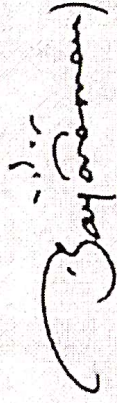
This is to Certify that

_____ of _____

has successfully completed the course on " Catia Modeling"
conducted by Department of Mechanical Engineering of
Prathyusha Engineering College in academic year 2019-2020


CO-ORDINATOR

Mr. Ragavendran


HOD

Dr. JAYARAMAN


PRINCIPAL

Dr. P.L.N. RAMESH



PRATHYUSHA ENGINEERING COLLEGE

ESTD. 2001

CERTIFICATE OF PARTICIPATION

This is to Certify that _____
of _____

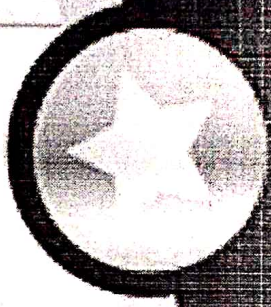
has successfully completed the course on "" Ansys & Pro-E""
conducted by Department of Mechanical Engineering of
Prathyusha Engineering College in the academic year
2019-2020

D. M. Jayaraman
CO-ORDINATOR
HOD

Mr.D. MEGANATHAN Dr.P.JAYARAMAN

P.L.N. Ramesh
PRINCIPAL

Dr.P.L.N.RAMESH





PRATHYUSHA ENGINEERING COLLEGE


ESTD. 2001

CERTIFICATE OF PARTICIPATION

This is to Certify that

_____ of _____
has successfully completed the course on "CNC
PROGRAMMING" conducted by Department of Mechanical
Engineering of Prathyusha Engineering College in the
academic year 2019-2020


CO-ORDINATOR
Mr. N. N. RAMASWAMY


HOD
Dr. P. JAYARAMAN


PRINCIPAL
Dr. P. L. N. RAMESH

PRATHYUSHA

ENGINEERING COLLEGE

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR (2019-2020)



Presents

Course on the Title



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD Initiative)

“CATIA MODELING”

30 Hours Course

Eligibility:

1. IV Year MECHANICAL Students
2. Basic Engineering Graphics

Course Contents:

Efficiency in the quality of design - Increase in the Engineer's productivity - Improve record keeping through better documentation and communication - Certificate of completion – Professional in Product Design – Automotive Component Design - Award of recognition – Best performer- Variety of Domains based jobs.

Outcome:

- Enhancing Skillset Certification
- Placement in MECHANICAL & DESIGN Sectors, Projects and Internships

Programme Coordinator:

Mr. Ragavendran, Assistant Professor

HOD

Dr. Jayaraman, Professor

Email-id: ragavendran.mech@prathyusha.edu.in

Phone number: 99430 60434

PRATHYUSHA

ENGINEERING COLLEGE

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR (2019-2020)



Presents

Course on the Title



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD Initiative)

“PRO-E&ANSYS MODELING”

30 Hours Course

Eligibility:

1. III Year MECHANICAL Students
2. Basic Engineering Graphics

Course Contents:

Efficiency in the quality of design - Increase in the Engineer's productivity - Improve record keeping through better documentation and communication - Certificate of completion – Professional in Product Design – Automotive Component Design - Award of recognition – Best performer- Variety of Domains based jobs.

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Programme Coordinator:

Mr. Ragavendran, Assistant Professor

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PRATHYUSHA

ENGINEERING COLLEGE

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR (2019-2020)



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INNOVATION
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Programme Coordinator:

Mr. Ragavendran, Assistant Professor

Email-id: ragavendran.mech@prathyusha.edu.in

Phone number: 99430 60434


HOD

Dr. Jayaraman, Professor

PRATHYUSHA ENGINEERING COLLEGE

DEPARTMENT OF MECH

DOMAIN CLUBS

CIRCULAR

DATE: 18.6.2019

The Department of Mechanical Engineering has scheduled the Certificate Course titled "Catia Modeling" for the benefit of III/IV years of students. The lists of interested students are informed to enroll themselves on or before 22.6.2019 for the programme to the Programme Coordinator as per the following schedule.

S.No.	Name of the Program	Programme Coordinator	Duration	Venue
1	CATIA MODELING	Mr.R.Ragavendiran	60	MoU Block
2	PRO-E & ANSYS	Mr.D.Meganathan	45	CIVIL MECH BLOCK
3	CNC TRAINING IN MTAB MACHINE	Mr.N.Ramaswamy	45	MT-2 LAB

****The schedule of the programme along with the list of interested students is attached for ready reference.*

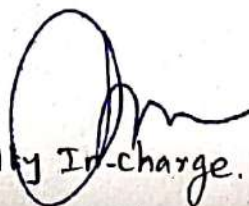

HEAD OF THE DEPARTMENT

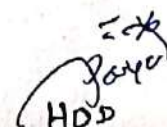
Copy To:

- 1. All Department faculty**
- 2. Programme coordinators**
- 3. Laboratory In Charges**
- 4. To be read in All classrooms**
- 5. Department Notice Board**

PRATHYUSHA ENGINEERING COLLEGE- TIRUVALLUR
DEPARTMENT OF MECHANICAL ENGINEERING
IV YEAR CNC TRAINING PROGRAM NAME LIST- 2019-20
CNC TRAINING - ENROLLMENT OF STUDENTS

S.NO	REG.NO	NAME OF THE STUDENTS	SIGNATURE
1	111417114005	ASHWIN KUMAR S	Ashwin Kumar S.
2	111417114006	BALAJI P	Balaji P.
3	111417114007	BELLAMKONDA CHARAN KUMAR	Charan Kumar.
4	111417114008	DEEPAN CHAKKARAWARTH M	Deepan Chakkarawarth M.
5	111417114010	DIHARANRAJ V	Diharan Raj V.
6	111417114011	DINESH S (07.02.2000)	Dinesh S.
7	111417114012	DINESH S (17.05.2000)	Dinesh S.
8	111417114013	DINESH S (24.06.2000)	Dinesh S.
9	111417114014	DIVAGAR K	Divagar K.
10	111417114015	DIVAKAR R	Divakar R.
11	111417114016	EZHIL KRISHNA V	Ezhil Krishna V.
12	111417114017	GALI VINAY	Gali Vinay.
13	111417114018	GODSON BENJAMIN I	Godson Benjamin I.
14	111417114019	GOWTHAM P	Gowtham P.
15	111417114020	GUNASEKAR M	Gunasekar M.
16	111417114021	HARI PRODHOSH G R	Hari Prodhosh G R.
17	111417114022	HARIRAJA K	Hariraja K.
18	111417114023	JAAHNAVI A	Jaahnavi A.
19	111417114024	JAGADEESAN N	Jagadeesan N.
20	111417114026	JAGADEESWARA RAO S	Jagadeeswara Rao S.
21	111417114027	JANAKIRAMAN M	Janakiraman M.
22	111417114028	JAYAKUMAR U	Jaya Kumar U.
23	111417114030	JOHN RHIYAN PALDANO	John Rhiyan Paldano.
24	111417114033	KIRAN KUMAR R	Kiran Kumar R.
25	111417114035	MADAN S	Madhan S.
26	111417114036	MANOJ KUMAR R	Manoj Kumar R.
27	111417114037	MEESALA VENKATA DINESH	Meesala Dinesh.
28	111417114039	MUKESH KUMAR G	Mukesh Kumar G.
29	111417114040	NARESH S	Nareesh S.
30	111417114302	GOPI V	Gopi V.
31	111417114041	NAVEEN K	Naveen K.
32	111417114042	NAVEEN S	Naveen S.
33	111417114044	NEELAKANDAN J	Neelakandan J.
34	111417114045	NISHANTH K	Nishanth K.
35	111417114046	PRABAKARAN P	Prabakaran P.
36	111417114047	PRASANTH E D	Prasanth E D.
37	111417114048	PRASHANT V J	Prashant V J.
38	111417114049	RAGHUL M P	Raghu M P.
39	111417114050	RAGURAMAN R	Raguraman R.
40	111417114051	RAMAKRISHNAN T	Ramakrishnan T.
41	111417114052	SACHIN RAJ C	Sachin Raj C.
42	111417114053	SAI TEJA H R	Sai Teja H R.
43	111417114054	SATHISH N	Sathish N.
44	111417114056	SESHADRI D	Seshadri D.
45	111417114060	SUDHAKAR K	Sudhakar K.
46	111417114062	THANIGAI VEL B	Thanigai Vel B.
47	111417114063	THENNARASU AMBEDKAR M	Thennarasu Ambedkar M.
48	111417114064	THIRUMOORTHY V	Thirumorthy V.
49	111417114065	THULASINAGENDRA G	Thulasinagendra G.
50	111417114066	UDHAYAKUMAR A	Udhaya Kumar A.


Faculty In-charge.


HOD

