

PRATHYUSA ENGINEERING COLLEGE

REQUEST FOR APPROVAL FOR CONDUCT OF ADD-ON/ CERTIFICATE COURSES

Date: 20.6.2018

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 2018-2019.

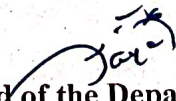
S.No.	Type of the course	Name of the Add on Course	Beneficiaries	Semester to be conducted	Venue of conduct	Duration (Hrs)
1	Add-on Course	Catia Modeling	IV Year	Odd & Even Semester	MoU Block	60
2.	Certificate Programme	PRO-E & ANSYS	III Year	Even Semester	CIVIL MECH BLOCK	45
3.	Certificate Programme	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: 2018-19**

S.No:	DATE	TOPICS	MODE OF DELIVERY	REMARKS
1	18.6.'18	Introduction to Catia setting,security context,PLM	TUTORIAL	sketcher
2	19.6.'18	Introduction to sketcher,design intent,tool bars	TUTORIAL	
3	20.6.'18	Geometry creation,analysis,constraints,dimensioning	TUTORIAL	
4	21.6.'18	Introductio to part modeling,parents child relation	TUTORIAL	solid modeling
5	22.6.'18	Solid creation tools,features based design	TUTORIAL	
6	25.6.'18	Dress up & datum features ,Pattern ,multi pad,boolian	TUTORIAL	
7	26.6.'18	Revison & Practice session	TUTORIAL	
8	27.6.'18	Duplication features(mirror,rotation,translation)	TUTORIAL	
9	28.6.'18	Editing features, resolving errors,creating materials	TUTORIAL	
10	29.6.'18	Apply materials to solid model,surface based features	TUTORIAL	
11	2.7.'18	Revison & Practice session on sketcher&Part modeling	TUTORIAL	
12	3.7.'18	Introduction to generative shape design, wire frame	TUTORIAL	Surface design
13	4.7.'18	Surface craetion by extrude,revolve,sphere	TUTORIAL	
14	5.7.'18	Transfromation features,reference elements,	TUTORIAL	
15	6.7.'18	surface creations surface operations by sweep, extractions	TUTORIAL	
16	9.7.'18	offset surface,fill,multi section ,blending of surface.	TUTORIAL	
17	10.7.'18	Apply materials to surface model,surface based features	TUTORIAL	
18	11.7.'18	Recalling & rivation practice on surface modeling tools.	TUTORIAL	
19	12.7.'18	Sheet metal design parameters,walls,wall on edge	TUTORIAL	sheet metal
20	13.7.'18	Extrusion over lapping, bend & unbend operations	TUTORIAL	
21	16.7.'18	Punch & die creations	TUTORIAL	
22	17.7.'18	Flange,hemming, tear drop operations on sheet	TUTORIAL	
23	18.7.'18	Cut, hole pattern operations on sheet metals	TUTORIAL	
24	19.7.'18	Introduction to assembly conept top down, bottom up	TUTORIAL	Assembly
25	20.7.'18	Importing components to assembly window,exploding	TUTORIAL	
26	23.7.'18	Assembly constarints with various degrees of freedom	TUTORIAL	
27	24.7.'18	Replace components,manipulation,bom,rendering of assembly	TUTORIAL	
28	25.7.'18	Introduction to drafting tools,types of drafting	TUTORIAL	Drafting
29	26.7.'18	Positioning of views,projection ,sections,clipping,details	TUTORIAL	
30	27.7.'18	Drawing sheets sizes,dimensioning,annotations,tolerance	TUTORIAL	
31	30.7.'18	BOM generation,balloons,back ground	TUTORIAL	
32	31.7.'18	DESIGN CONTEST ON SOLID MODELING	TUTORIAL	

**PRATHYUSHA ENGINEERING COLLEGE THIRUVALLUR**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**ACADEMIC YEAR (2018-2019)**

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

S.No:	DATE	TOPICS	MODE OF DELIVERY
1	01-03-2019	Introduction to About the Pro/Engineer Wildfire 2.0	TUTORIAL
2	01-04-2019	What is Pro/ENGINEER®?	TUTORIAL
3	01-05-2019	INDUSTRY EXPERT INTRACTION	PPT
4	01-09-2019	DESIGN CONTEST PRO E DOMAIN	PPT
5	01-11-2019	Conventions Used in this Tutorial	TUTORIAL
6	14/1/2019	Introduction to Pro/E WILDFIRE	TUTORIAL
7	17/1/2019	General Steps of the Finite Element Method	TUTORIAL
8	18/1/2019	Starting Pro/E	TUTORIAL
9	21/1/2019	Complete the Housing top	TUTORIAL
10	24/1/2019	Creating a 2-D Engineering Drawing	TUTORIAL
11	31/1/2019	Limitations of FEA	TUTORIAL
12	02-04-2019	Add dimensions	TUTORIAL
13	02-06-2019	Creating the Disk-Brake Assembly	TUTORIAL
14	02-11-2019	Six Common Assembly Constraints	TUTORIAL
15	14/2/2019	Add Color and Create an Exploded View	TUTORIAL
16	16/2/2019	Create a Cutout View	TUTORIAL
17	18/2/2019	Animation in Pro/ENGINEER Wildfire 2.0	TUTORIAL
18	20/2/2019	DESIGN CONTEST PRO E DOMAIN	PPT
19	22/2/2019	Background	TUTORIAL
20	25/2/2019	Creating Assembly	TUTORIAL
21	26/2/2019	Creating the Motion Sequence	TUTORIAL
22	28/2/2019	Prepare the Model	TUTORIAL
23	03-05-2019	Start Pro/MECHANIC	TUTORIAL
24	03-07-2019	Variable Sweep Creation of Free Form Surface	TUTORIAL
25	14/3/2019	More Complex Surface and Part Mode	TUTORIAL
26	19/3/2019	Design parameter sensitivity study	TUTORIAL
27	22/3/2019	Automated Generation of CNC Tool Paths Using Pro/Manufacturing	TUTORIAL
28	25/3/2019	application of solid modeling	TUTORIAL
29	27/3/2019	Modifying Sheetmetal Models	TUTORIAL
30	28/3/2019	Adding Model Details and Tolerance	TUTORIAL
31	29/3/2019	Structure and Skeletons	TUTORIAL
32	29/3/2019	Prepare the Model	TUTORIAL
33	30/3/2019	Measuring, Inspecting Models	TUTORIAL

**PRATHYUSHA ENGINEERING COLLEGE THIRUVALLUR****DEPARTMENT OF MECHANICAL ENGINEERING****ACADEMIC YEAR (2018-2019)**

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

S.No.	DATE	TOPICS	MODE OF DELIVERY
1	2.1.19	Read job orders and process sheets to determine tooling and setup information	Practice with machine
2	9.1.19	Install cutting tools in holders and Machine zero, home position, work piece zero, programme zero	Practice with machine
3	11.1.19	Set Up a Computer Numerical Control (CNC) milling M/C	Practice with machine
4	19.1.19	Identify different types of retention knobs; select appropriate knob for application	Practice with machine
5	23.1.19	Dry run machine, if required, or simulate operation and Machine first piece to verify accuracy of setup and program	Practice with machine
6	30.1.19	Change tool and work offsets	Practice with machine
7	1.2.19	Identify and correct programming errors and Adjust speeds and feeds for optimum performance	Practice with machine
8	6.2.19	CNC part programming: Programming format and Structure of part programme	Practice with machine
9	8.2.19	Linear & Circular interpolation simulation & assignment milling Tool changes	Practice with machine
10	9.2.19	Simulation on CNC mill computers and auto mode execution of CNC machine exercises sub program Circular & rectangular pockets. Drilling, Milling patterns	Practice with machine
11	13.2.19	Contour milling with tool radius compensation, pocket milling, drilling, peck drilling	Practice with machine
12	15.2.19	Countersinking, tapping operations using canned cycles for hole operations	Practice with machine
13	20.2.19	CNC part programming with simple exercises 1	Practice with machine
14	22.2.19	CNC part programming with simple exercises 2	Practice with machine
15	27.2.19	CNC part programming with simple exercises 3	Practice with machine
16	1.3.19	CNC part programming with simple exercises 4	Practice with machine
17	6.3.19	CNC part programming with simple exercises 5	Practice with machine
18	8.3.19	CNC part programming with simple exercises 6	Practice with machine



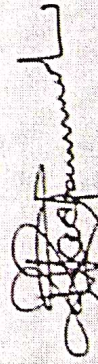
**PRATHYUSHA  
ENGINEERING COLLEGE**

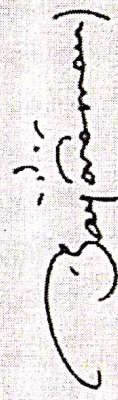
ESTD. 2001


# 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 2018-2019

  
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  
2018-2019

*D. M. M. V. Jayaraman*  
CO-ORDINATOR

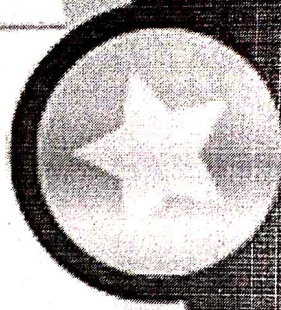
Mr. D. MEGANATHAN

*Dr. P. Jayaraman*  
HOD

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 2018-2019

  
CO-ORDINATOR  
Mr. N. RAMASWAMY

  
HOD  
Dr. P. JAYARAMAN

  
PRINCIPAL  
Dr. P. L. N. RAMESH

# PRATHYUSHA

## ENGINEERING COLLEGE

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR (2018-2019)



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

Dr. Jayaraman, Professor

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

Phone number: 99430 60434



# PRATHYUSHA

## ENGINEERING COLLEGE

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR (2018-2019)



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.

#### Outcome:

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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 MECHANICAL ENGINEERING

ACADEMIC YEAR (2018-2019)



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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: 25.6.2018**

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 28.6.2018 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 BLCK
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.**

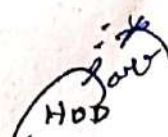
  
**HEAD OF THE DEPARTMENT**

**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- 2018-19			
CNC TRAINING - ENROLLMENT OF STUDENTS			
S.NO	REG.NO	NAME OF THE STUDENTS	SIGNATURE
1	111416114001	ARAVINDAN .M	Aravindh. M.
2	111416114005	BALAJI .R	Balaji. R.
3	111416114006	BALARAJU LAKSHIMAN RAJU	Balaraju Lakshiman Raju.
4	111416114010	CHIRAN KUMAR .D	Chiranjeevum D.
5	111416114013	DOBSON MERVIN .R	Dobson Mervin.
6	111416114015	ELAVUR JANARDHAN	Janardhan C
7	111416114023	GUDI KIRAN KUMAR	Kiran Kumar.
8	111416114025	HARISH .B	Harish B.
9	111416114026	HEMANTH .R	Hemanth R.
10	111416114043	NAVINKUMAR .S	Navin Kumar.
11	111416114044	NIKHIL .V	Nikhil V.
12	111416114045	NIRANJAN .K	Niranjana K.
13	111416114046	NIRMAL RAJ .K	Nirmal Raj. K.
14	111416114056	SAKTHI VADIVAZHAGAN .G	Sakthi Vadivazhagan G.
15	111416114059	SATHISH KUMAR .R	Sathish Kumar. R.
16	111416114064	VASANTH N	Vasanth N.
17	111416114065	VENUGOPAL S	Venugopal S.
18	111416114066	VIJAY KUMAR G	Vijay Kumar G.
19	111416114067	VIJAY RASWANTH S	Vijay Raswanth S.
20	111416114068	VINOTH V	Vinoth V.
21	111416114069	YOGESH S	Yogesh S.
22	111416114302	JAFFAR SHARIFF	Jaffar Shariff.
23	111416114303	RAGHUL R	Raghul R.

  
Faculty In-charge

  
HOD

PRATHYUSHA ENGINEERING COLLEGE- TIRUVALLUR  
 DEPARTMENT OF MECHANICAL ENGINEERING  
 IV YEAR CNC TRAINING PROGRAM NAME LIST- 2018-19

S.No	REG.NO	NAME OF THE STUDENTS	DATE																	
			2.1.19	9.1.19	11.1.19	19.1.19	23.1.19	30.1.19	1.2.19	6.2.19	8.2.19	9.2.19	13.2.19	15.2.19	20.2.19	22.2.19	27.2.19	1.3.19	6.3.19	8.3.19
1	111416114001	ARAVINDAN .M	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind
2	111416114005	BALAJI .R	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji
3	111416114006	BALARAJU LAKSHMAN RAJU	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju	Balaraju
4	111416114010	CHARAN KUMAR .D	Charan	Charan	Charan	Charan	Charan	Charan	Charan	Charan	Charan	Charan	Charan	Charan	Charan	Charan	Charan	Charan	Charan	Charan
5	111416114013	DOBSON MERVIN .R	Doobson	Doobson	Doobson	Doobson	Doobson	Doobson	Doobson	Doobson	Doobson	Doobson	Doobson	Doobson	Doobson	Doobson	Doobson	Doobson	Doobson	Doobson
6	111416114015	ELAVUR JANARDHAN	Elavur	Elavur	Elavur	Elavur	Elavur	Elavur	Elavur	Elavur	Elavur	Elavur	Elavur	Elavur	Elavur	Elavur	Elavur	Elavur	Elavur	Elavur
7	111416114023	GUDI KIRAN KUMAR	Gudi	Gudi	Gudi	Gudi	Gudi	Gudi	Gudi	Gudi	Gudi	Gudi	Gudi	Gudi	Gudi	Gudi	Gudi	Gudi	Gudi	Gudi
8	111416114025	HARISH .B	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish
9	111416114026	HEMANTH .R	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant
10	111416114043	NAVINKUMAR .S	Navin	Navin	Navin	Navin	Navin	Navin	Navin	Navin	Navin	Navin	Navin	Navin	Navin	Navin	Navin	Navin	Navin	Navin
11	111416114044	NIKHIL .V	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil
12	111416114045	NIRANJAN .K	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan	Nirajan
13	111416114046	NIRMAL RAJ .K	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal
14	111416114056	SAKTHI VADIVAZHAGAN .G	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi
15	111416114059	SATHISH KUMAR .R	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish
16	111416114064	VASANTH N	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth
17	111416114065	VENUGOPAL S	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal	Venugopal
18	111416114066	VIJAY KUMAR G	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay
19	111416114067	VIJAY RASWANTH S	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay
20	111416114068	VINOTH V	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth
21	111416114069	YOGESH S	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh
22	111416114302	JAFFAR SHARIFF	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar
23	111416114303	RAGHUL R	Raghul	Raghul	Raghul	Raghul	Raghul	Raghul	Raghul	Raghul	Raghul	Raghul	Raghul	Raghul	Raghul	Raghul	Raghul	Raghul	Raghul	Raghul

Faculty Incharge

HOD