AKSHAYA
COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-An ISO 9001:2015 Certified Institution)
Kinathukadavu, Coimbatore - 642 109.

CONSOLIDATED LIST OF ADD ON / CERTIFICATE PROGRAMS OFFERED

ACADEMIC YEAR 2020-2021

S.No	NAME OF ADD ON /CERTIFICATE PROGRAMS OFFERED	DURATION OF COURSE	NUMBER OF STUDENTS ENROLLED
1	C PROGRAMMING	32 hrs	85
2	PYTHON PROGRAMMING	32 hrs	130
3	PROGRAMMING,DATA STRUCTURES AND ALGORITHMS USING PYTHON - NPTEL	64 hrs	1

ACADEMIC YEAR 2019-2020

1	PROGRAMMING,DATA STRUCTURES AND ALGORITHMS USING PYTHON - NPTEL	64 hrs	3
2	3DS -MAX	30 hrs	24
3	PRIMAVERA	48 hrs	29
4	NX CAD	33 hrs	63
5	HVAC	33 hrs	52
6	E-CAD	48 hrs	23
7	INDUSTRIAL AUTOMATION CERTIFIED BY FANUC	54 hrs	38
8	PLC AND SCADA	48 hrs	34

ACADEMIC YEAR 2018 - 2019

1	PROGRAMMING,DATA STRUCTURES AND ALGORITHMS USING PYTHON- NPTEL	64 hrs	2
2	CATIA	40 hrs	70
3	TOOL DESIGN	48 hrs	86
4	MASTERCAM	48 hrs	61
5	NX CAD	48 hrs	79

ACADEMIC YEAR 2017 - 2018

1	DESIGN AND ANALYSIS OF ALGORITHMS- NPTEL	64 hrs	1
2	DATA MINING- NPTEL	64 hrs	2
3	PRINCIPLES OF SIGNALS AND SYSTEMS- NPTEL	96 hrs	1
4	PRIMAVERA	40 hrs	66
5	AUTODESK FUSION 360	60 hrs	59
6	CREO	48 hrs	81
7	SOLIDWORKS	48 hrs	43
8	LABVIEW	48 hrs	45
9	ANSYS	80 hrs	99
10	CREO	48 hrs	51
11	NDT	98 hrs	48
12	UNIGRAHICS	30 hrs	129

ACADEMIC YEAR 2016 - 2017

1	REVIT ARCHITECTURE	80 hrs	61
2	PRIMAVERA	80 hrs	106
3	ORACLE CERTIFIED ASSOCIATE JAVA SE7 PROGRAMMER	50 hrs	10
4	ORACLE CERTIFIED ASSOCIATE JAVA SE7 PROGRAMMER	50 hrs	12
5	CATIA	48 hrs	73

N. Kathiravan
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DEPARTMENT OF CIVIL ENGINEERING

VALUE ADDED PROGRAM - COURSE PLAN

YEAR/SEM:	**III / V**	**DURATION**	**24.6.19 to 29.6.19**
NAME OF THE VAP:		**3Ds Max**	
MODE OF THE TRAINING:		**EXTERNAL**	
NAME OF THE ORGANISATION:		**CADD LEADER**	
NAME OF THE EXTERNAL TRAINERS: 1.D.Sowmiya			
NAME OF THE INTERNAL TRAINERS: 1. Mr.P.A.Edwin Fernando,AP/Civil			
DEPARTMENT COORDINATOR :		**Mr.S.Sureshkumar,AP/Civil**	

LEARNING OUTCOME:

1.Students will be able to create 3D Component creation

2.Students will be able to create Shapes creation using standard and extended primitives tools

3.Students will be able to assign Wall designing and material apply

4.Students will be able to assign Light creation and import models from CAD & Revit

5.Students will be able to assign Camera View, Rendering and Walkthrough creations

DATE	LESSON PLAN	SESSION PLAN
24.6.19	Introduction, Tools	Introduction to 3ds Max, introduction, Unit setup,Difference of view ports ,Background image changing ,Wireframe and Orbitary rotation. Tools to apply are Rotate,Move,Scale,Cloning,Align,Array,Group & Ungroup,Freeze & Unfreeze ,Mirror,E-Poly and Loft,Lathe & Bend.
25.6.19	Component Creation	Component Creation are Sofa,Chair,stair,door,window,Fan,Pillow,Kitchen furniture,Bed,Table.
26.6.19	Interior Designs and Exterior Designs	Interior elements can be created like Bulb fixtures and ornaments . Exterior elements can be created like Landscape elements
27.6.19	Wall Designing and Material Apply	Generating Walls in the Building and applying the wall designing (i.e) Wall mural,Wood texture,Frosted glass,Plain & colour glass,Colour mirrors ,Tiles apply Materials can be applied (i.e) V-Ray material,Wall paint,Wood & steel material,Floor and roof tile apply.
28.6.19	Shapes creation,Light creation	Shapes creation like geomentry,Standard primitives,Extended primitives and AEC Extended,Spline,Creation of plan,Roof and floor Sculpting. Light Creation like IES Light,Omni light,Spot light,Vray Light
29.6.19	Camera view and Rendering	Physical camera view,Target ,Vray Camera View ,Art render ,Vray Render and merging and walk through creations

CONSOLIDATED REPORT SUBMISSION: ----------.2019

DEPT-COORDINATOR **OVERALL-COORDINATOR** **HOD** **PRINCIPAL**

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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED PROGRAM - COURSE PLAN

YEAR/SEM:	III/V –A SEC	DURATION	28.6.2019 to04-10-2019
NAME OF THE VAP:		ANSYS	
MODE OF THE TRAINING:		INTERNAL	
NAME OF THE ORGANISATION:		NA	
NAME OF THEEXTERNAL TRAINERS:	1. NA 2. NA		
NAME OF THE INTERNAL TRAINERS:	1. Mr.Muthuraj.AP/Mechanical		
DEPARTMENT COORDINATOR :		Mr.G.Selvaraj,AP/Mechanical	

LEARNING OUTCOME:

1. At the end of the course the participant will be able to use the ANSYS package to solve basic engineering analysis problems using FEA techniques.

2. The participants should have some basic concept of engineering mechanics and familiarity with desktop environment.

DATE	LESSON PLAN	SESSON PLAN
28.6.19	INTRODUCTION TO FEA AND ANSYS	ANSYS and its interfaces , ANSYS Basics and General FEA Analysis Procedures , Types of Analysis , Important Terms and Definitions
5.7.19	BASIC MODELING	Getting Started with ANSYS , Other Important Terms Related to ANSYS Creating Geometric Entities , key point ,Line Areasvolumes , Nodes, Elements, and Element Shapes ,Solid Modeling and Direct Generation
12.7.19	FINITE ELEMENT MODELING (FEM) An Overview of the Finite Element Modeling	Element Attributes defining , Element Types , Real Constants Material Properties , Multiple Attributes Assigning Multiple Attributes before Meshing Assigning Default Attributes before Meshing , Mesh Generation Mesh Density
19.7.19	APPLYING BOUNDARY CONDITIONS	Applying DOF Constraints ,Applying Loads , Deleting DOF Constraints & all Loads and Load Step Options
26.7.19	SOLUTION AND POSTPROCESSOR	Defining the New Analysis Type , Solving the Analysis Problem , Post processing the Result
16.8.19	GENERATING THE REPORT OF ANALYSIS	Starting the ANSYS Report Generator Capturing Images for the Report Capturing Animations for the Report Capturing Data Tables for the Report Capturing Lists for the Report

30.8.19	STATIC STRUCTURAL ANALYSIS	1.Beam Elements 2.Analysis of a bicycle frame 3.Truss Elements 4.Beam with UDL & UVL Load case & Generating SF & BM Diagrams
13.9.19	NON LINEAR BUCKLING ANALYSIS	1.Buckling Analysis 2.Analysis of a Steel Bracket 3.Practice Problems for Axisymmetric Planar Elements 4.Aircraft Nose cone analysis
20.9.19	THERMAL ANALYSIS	1.Steady-State conduction Analysis 2.Steady-State convection Analysis 3.Transient Thermal Analysis 4.Furnace wall Analysis
27.9.19	ANSYS WORKBENCH - STRUCTURAL , THERMAL ANALYSIS	Introduction to workbench module, creating a model using workbench, mesh generation, assign Engineering data's. Ceramic Coated Piston Analysis , Cylinder Head with fins Analysis
04.10.19	FATIGUE ANALYSIS, CFD ANALYSIS& REAL TIME PROJECT ASSIGNMENTS/EVALUATION	1.Fatigue analysis of mating gears , 2.CFD Analysis –hot & cold water sink& Tutorial / Project Work
CONSOLIDATED REPORT SUBMISSION:		

DEPT-COORDINATOR OVERALL-COORDINATOR HOD PRINCIPAL