LAKKIREDDY BALI REDDY COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
(Autonomous & Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi, NAAC Accredited with 'A' grade, Accredited by NBA, Certified by ISO 9001:2015)
L B Reddy Nagar, Mylavaram-521 230, Krishna District, Andhra Pradesh.

Summary Sheet

Program Name: Digital Driven Design and Manufacturing on the 3dx Platform

Type of Program: Faculty Improvement Programme

Duration: 02-07-2018 to 06-07-2018 (5 days)

Venue: LakireddyBalireddy College of Engineering, Mylavaram.

Organized by: Department of Mechanical Engineering, LBRCE in association with APSSDC and Dassault Systemes.

SI No	Name	College
1	Lakshmi Kishore Karedla	Aditya Engineering College
2	Dvvsb Reddy Saragada	Aditya Engineering College
3	GurramArun Manohar	Centurion University Of Technology & Management
4	A Sreekanth	G. Pullaiah College of Engineering & Technology
5	D Madhusudhan	Gates Institute of Technology
6	Sarode Vasudeva Rao	Gates Institute of Technology
7	Shaik Nayeem	Godavari Institute of Engineering & Technology - Autonomous (GIER)
8	KedaranathMahapatro	Godavari Institute of Engineering & Technology - Autonomous (GIER)
9	Jogi Phani Kumar	Gudlavalleru Engineering College
10	Pradeep Kumar Uddandapu	KSRM College of Engineering
11	B.Sudarshan	KSRM College of Engineering
12	SimhadriIndrasena Reddy	LakireddyBalireddy College of Engineering
13	AnnamdasuNageswara Rao	LakireddyBalireddy College of Engineering
14	Janga Venkata Somireddy	LakireddyBalireddy College of Engineering
15	Satish Pujari	Lendi Institute of Engineering and Technology
16	Ramakrishna Ravada	Lendi Institute of Engineering and Technology
17	A. Bala Raju	Madanapalle Institute of Technology and Science
18	ChRamakrishnaiah	NBKR Institute of Sceince& Technology
19	Jasper Johnson Dokiburra	Pragati Engineering College
20	KaruturiViswatej	Pragati Engineering College
21	Korepu Mahesh Kumar	QIS College of Engineering & Technology
22	Mohammed Humain	QIS College of Engineering & Technology
23	Konda Anil Kumar	QIS Institute of Technology
24	Thati Naga Sai Rama Krishna	RVR & JC College of Engineering
25	Kurra Hari Prasad	RVR & JC College of Engineering
26	Moses Dayan Godi	SagiRamakrishnam Raju Engineering College
27	Namburi Harsha	SagiRamakrishnam Raju Engineering College
28	N V Narasimharao L	Sir C.R.Reddy College of Engineering
29	Naveen Kumar Velagapudi	Sir C.R.Reddy College of Engineering

30	AnnabathinaVenkatesh	SreeVidyanikethan Engineering College
31	HemanthKumarapu	Sri Vasavi Engineering College
32	B MAHESH KRISHNA	Swarnandhra COLLEGE OF ENGINEERING AND TECHNOLOGY
33	V.KULA SEKHAR REDDY	Swarnandhra COLLEGE OF ENGINEERING AND TECHNOLOGY
34	Bommanaboina V Narasaiah	University College of Engineering Narasaraopet
35	Lakshmi Narasimhaswamy M	University College of Engineering Narasaraopet
36	V VAnanthaChakravarthy	VEMU Institute of Technology
37	Jeevan Prasad M	VEMU Institute of Technology

Number of faculty participants: 37

Number of colleges participated: 22

Chief Guest for Inaugural Function:

Dr.K. Lakshmi Narayana, **IAS (Retd.), Founder-Director, APSSDC**

Guests for Inaugural Function:

Sri. G. Srinivasa Reddy, President

Dr. K. Appa Rao, Principal

Dr. K.Sreenivasa Reddy, Vice Principal

Mr. RabindraSaha, Tata Technologies, Digital Manufacturing Domain

Dr. S.Pichi Reddy, HoD, ME

Dr. K.S.M.V. Kumar, Coordinator-SDC

INAGURAL FUNCTION :

Day-1:

Resource Person:

Mr. Rabindra Sha, Digital Manufacturing, TATA Technologies

Following is the Content Covered day 1 (02-07-18)

Section 1

- Overview on Challenges & Emerging Trend of Industry
- Overview on End to End Automotive Cycle
- Product Design & Validation, New Product Development, Project Planning, Production Engineering, Manufacturing, Quality, Serviceability
- Global Digital Technology & Software used worldwide in various domain
- Dassault Systems Brand solution
- New Product Development & NPD Global
- Overview on PLM - Product Life Cycle

Section 2

- Enovia, Exiled, Netvibes
- Overview on Product Design
- Product Design
- DFM- Design for Manufacturability- DFSS,DFM,DFA,DFMEA
- LSS – Lean Six Sigma
- FEA/CAE Validation
- KBE – Knowledge Based Engineering
- NPI- Simultaneous Engineering
- Product Value Improvement
- Digital Manufacturing - an Emerging Technology

Day-2:

Resource Person:Mr. Rabindra Sha, Digital Manufacturing, TATA Technologies

Following is the Content Covered day 2 (03-07-18)

Section 1

- Apriso - Manufacturing Operations Management
- Quintiq- Supply Chain Planning
- CATIA &Delmia Customisation/Development

Section 2

- Overview on Future of Industry - Industry 4.0 and various levers:
- Digitization & Simulation
- Industrial Internet of things
- Mobility

Section 3

- Augmented Reality
- Additive Manufacturing /3D Printing
- Autonomous Robots
- Big Data Analysis, Cloud server & data & Cyber Security
- Horizontal & Vertical systems Integration

Section 4

- C-Flex & Flexible Manufacturing System
- Overview on SMART City
- Industry need & Employability of Students/Academia



DAY-3:

Resource Person:Mr. Varun Arora, Shape Design Solution Expert, Dassault Systemes

Following is the Content Covered day 3 (04-07-18)

Section 1

- Introduction to Dassault Systemes.
- CATIA & Delmia Customisation/Development
- Overview of modules present in 3-D experience.

Section 2

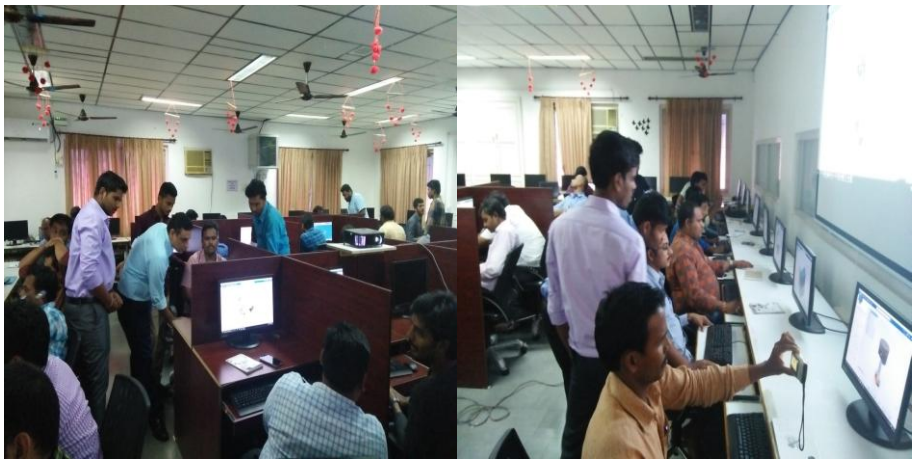
- Digitization & Simulation
- Data sharing in 3-D experience
- Roles in 3-D experience and their connectivity
- Introduction to part modelling in 3-D experience

Section 3

- Hands on experience in part design module
- Importing, saving, sharing, retrieving the product
- Exploring the imported product in a detailed and exploded view

Section 4

- Operations on a dumped product
- Corrections, adjustments on the assembly
- Date: 5-7-18



DAY-4:

Resource Person:Mr. Varun Arora, Shape Design Solution Expert, Dassault Systemes

Following is the Content Covered day 4 (05-07-18)

Section 1

- Overview of modules present in 3-D experience
- Introduction to toolbars in part design

Section 2

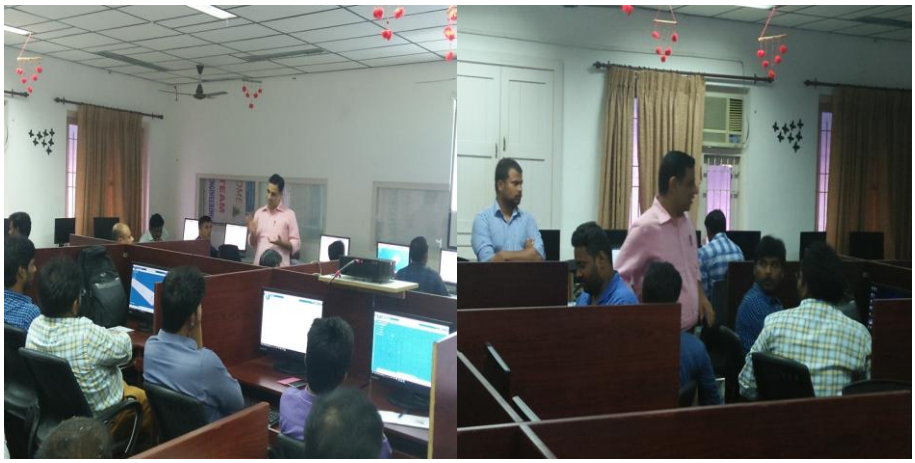
- Hands on experience on part design
- 2-D exercise in part design
- 3-D exercises in part design

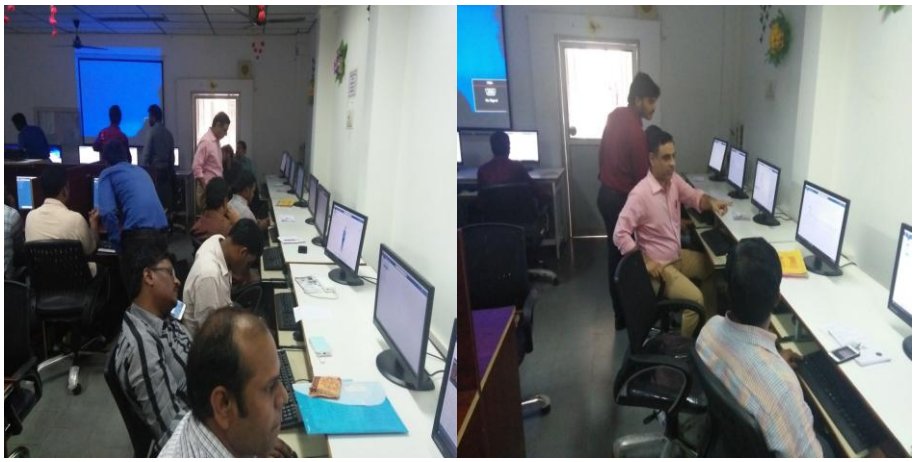
Section 3

- Introduction to assembly design
- Explore options of assembly design
- Exploring the imported product in a detailed and exploded view

Section 4

- Introduction to surface and wireframe design
- Exercises on surface design
- Q & A
- Date: 5-7-18





DAY-5:

Resource Person:Mr. Rajeev, Shape Design Solution Expert, Dassault Systemes.

Following is the Content Covered day 5 (06-07-18)

Section 1

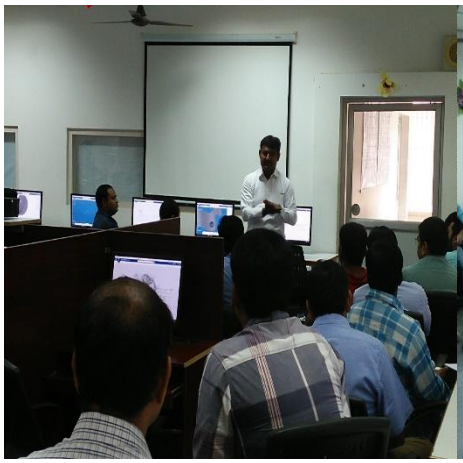
- Interactive session with resource person

Section 2

- Hands on experience on part design
- 2-D exercise in part design
- 3-D exercises in part design

Section 3

- Introduction to shape design
- Explore options of wireframe and surface design




Valdictory Guests:

Dr. K. Appa Rao, Principal

Mr. Gunasekhar Reddy, Asst. Project Manager, APSSDC

Dr. S. Pichi Reddy, HoD, ME.

Dr. K.S.M.V. Kumar, Coordinator-SDC.

About 3-DEXPERIENCE:

The **3D**EXPERIENCE® platform is a business experience platform.

It provides software solutions for every organization in your company – from marketing to sales to engineering – that help you, in your value creation process, to create differentiating consumer experiences. With a single, easy-to-use interface, it powers Industry Solution Experiences – based on 3D design, analysis, simulation, and intelligence software in a collaborative, interactive environment. It is available on premise and on cloud.

Dassault Systems offers industry-leading applications delivered on the **3D**EXPERIENCE platform: Design & Engineering, Manufacturing & Production, Simulation, Governance & Lifecycle, 3D Design Experience for Professionals, as well as a broad catalog of services.

DELMIA, powered by the **3DEXPERIENCE** platform, helps global businesses reimagine their engineering, operations, and planning for manufacturing excellence

Operational excellence requires harmony across design, production, distribution, people and processes. DELMIA's portfolio enables you to transform operations. With DELMIA you can design and test in a simulated production environment. Once complete, you can efficiently plan, produce, and manage all resources from staff, to production, to customer delivery.

ENOVIA powered by the **3D**EXPERIENCE® platform, enables you to plan your definition of success. With a broad portfolio of technical and business applications, ENOVIA enables stakeholders across the enterprise to contribute to sustainable innovation.

SIMULIA applications accelerate the process of evaluating the performance, reliability and safety of materials and products before committing to physical prototypes.

CATIA powered by the **3D**EXPERIENCE® platform, enables you to model 3-D part bodies, Assemblies, Surfaces, Shape Designs, and Drafting of 3-D models.