

GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
Seshadri Rao Knowledge Village, GUDLAVALLERU

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 10.03.2021.

CIRCULAR

All the faculty are here by informed that Mechanical Engineering Department is conducting a guest lecture on “HYPERWORKS” by **K. Naveen Kumar, Lead Engineer at HCL Technologies Ltd. Hyderabad**, on 13th March 2021 for III year Mechanical Engineering students. All the faculty members are requested to join this guest lecture.

Venue: ME Seminar Hall (N – 216)

Time: 02.00 PM to 04.20 PM


H.M.E.

GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
Seshadri Rao Knowledge Village, GUDLAVALLERU

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 11.03.2021.

CIRCULAR

All the III B. Tech. Mechanical Engineering Students are hereby informed to participate in a guest lecture on “**Hyperworks**” by Mr. **K.Naveen Kumar**, Lead Engineer at HCL Technologies Ltd Hyderabad, on 13th March 2021 without fail.

Venue: Mechanical AC Seminar Hall (N216)

Time: 02.00PM to 04.20 PM


H.M.E

17/6



IE (I) STUDENT CHAPTER



In association with

MECHANICAL ENGINEERING ASSOCIATION

Is Organising

Guest Lecture on Hyperworks

on

13th March – 2021



Department of Mechanical Engineering

Gudlavalleru Engineering College

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakindada)

Seshadri Rao Knowledge Village

GUDLAVALLERU - 521 356

Krishna Dist. A.P.

Programme Schedule

- ⇒ Welcoming Guests
- ⇒ Introduction to Speaker
- ⇒ Lecture on Hyperworks
- ⇒ Vote of Thanks

Guest Speaker

Sri. K. Naveen Kumar
Lead Engineer
HCL Technologies Ltd., Hyderabad.

Coordinators

Sri.P. Satyanarayana. *Asst. Prof,*
Sri G.Ratna kumar. *Asst. Prof,*

Venue

Mechanical AC Seminar Hall (N 216)



HYPERWORKS

By

SRI. K. NAVEEN KUMAR

Lead Engineer

HCL Technologies Ltd., Hyderabad.

on

13.03.2021



DEPARTMENT OF MECHANICAL ENGINEERING

SESHADRI RAO

GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

Seshadri Rao Knowledge Village:: GUDLAVALLERU



Naveen Kumar Kolapalli

H.NO: 12-7-134/P20, Flat no: 101,
Sri Ganapati Nilayam, Anjaneya Nagar,
Moosapet,Hyderabad-500018.

Mail: naveenkolapalli@hotmail.com
Contact: +91 9441826550

Career Summary:

Lead Engineer with 6+ years of extensive experience in Engineering Design, new product development, Manufacturing Process, Assembly Process Planning. Highly skilled in CAD modelling, Assembly, drafting, GD&T, and sheet metal designs, 3D Factory Layout and Optimization, Assembly Process Planning, Virtual Design Review & Audit, Virtual Build.

Professional experience:

- Working as Lead Engineer at HCL Technologies Ltd., Phoenix City Madhapur(8th Apr 2019 to till date)
- Worked as Engineer at AXISCADES Technologies Ltd., Hi-Tech City, Madhapur(22nd Sep 2015 to 5th Apr 2019)
- Worked as Design Engineer at CADD Center, Hyderabad (3rd Mar 2015 to 31st Aug 2015)
- Worked as Senior Instructor at A.A.N.M & V.V.S.R Polytechnic College, Gudlavalleru(8th Sep 2010 to 28th Feb 2011)

Projects Executed:

Project : GSS LASERS
Client : KLA-Tencor
Tools : Creo 4.0, Windchill, Enovia, JIRA and MS Office.
Designation : Lead Engineer

Description:

- Created on Enclosures, Frames, Mounting brackets and top-level Assemblies.
- Ensured the design safety using Creo Simulate Static/Seismic analysis.
- Provided functional design solution to the complex design requirements.
- Had good rapport with customer for effective and timely deliveries.
- Created Drawings and Assembly procedures based on KLA standards.
- Responsible to release the Design BOM, and drawings to ENOVIA PLM.
- Responsible to provide cost comparison of various vendors.
- Created cost efficient packaging crate assembly for shipment.

Projects Executed:

Project : Virtual Manufacturing Engineering
Client : Ford, Global Manufacturing Engineering
Tools : Teamcenter MPP, Teamcenter Vis Mockup, MS PowerPoint, MS Excel
Designation : Lead Engineer

Description:

- Checking product Global manufacturing requirements (GMR) for vehicles using Teamcenter Vismockup in Body construction team.

- CAD Monitoring for NPI vehicles for different facilities.
- CAD comparison for NPI vehicles with respective change revisions.
- Structure Creation and additions for NPI products using Team center MMP.
- Checklist Creation for station wise for NPI Products.
- Interacting with Manufacturing Engineer to understand the requirements and ensuring on fulfilling the same in deliverables

Project : Visual Communication Support for Manufacturing Units
Client : Component Manufacturing Division, Caterpillar
Tools : Adobe Illustrator, MS PowerPoint, MS Excel, Microsoft Power BI
Designation : Lead Engineer

Description:

- Having good experience in Manufacturing services, developed content for various handbooks for Caterpillar Components Manufacturing Division
- Developed Handbook on Quality that includes the concepts like Built in Quality, Poka-Yoke, Root Cause Analysis, Cost of Poor Quality
- Developed Handbook on Metrics being followed in manufacturing units, that includes various KPIs to be measured and monitored in an assembly line
- Interacting with Onsite Coordinators to understand the customer requirements and ensuring on fulfilling the same in deliverables
- Published Power BI Reports in the required originations and Made Power BI Dashboards available in Web clients and mobile apps
- Explore data in a Variety of ways and across multiple visualizations using Power BI
- Used Power BI Gateways to keep the dashboards and reports up to date.
- Installed and Configured Enterprise Gateway and Personal Gateway in Power Bi Services.
- Published reports and dashboards using Power BI.

Project : ASSEMBLY PROCESS PLANNING (APP), 3D PLANT LAYOUT
Client : Caterpillar India Private Limited.
Tools : Factory CAD, Teamcenter Vis mockup, CAPP+, PLEX, HVC, MCS, CREO, ODS
Designation : Engineer

Description:

3D Layout Design and Optimization, Engineering Changes for heavy Engineering Equipment's and Engines, Line Balancing for HMS, SWES Creation and Time Study for Excavators and Off Highway Trucks (OHT) and VB & VDRA Projects on Engines & Machines, Simplification of Assembly Process Planning (APP).

- Having Assembly line experience for Excavators and Off highway trucks at Caterpillar plant, Tiruvallur, Chennai
- Created 3D Plant Layout for Engine Facility in Caterpillar Franklin
- Modeled 3D Plant Layout, Flow analysis and Optimization for the Axle Plant in CIPL, Chennai
- Modeled 3D Plant Layout for the Transmission Plant Layout in CIPL, Chennai
- Documentation of Engineering changes for Assembly Line with respect to new releases
- To set and calculate standard time for different operations of assembly line

- To simplify assembly process with the help of visual aids
- Line balancing, Capacity planning and Yamazumi chart for HMS (NPI), Caterpillar, Batam
- Creating Assembly station sequence for Excavators & Engines and conducting Virtual audits to eliminate Engineering & Assembly issues
- VDRA, VB Validation for C9, C18, C32, and C175 for Griffin and Lafayette facilities.
- Robust APQP execution for both new product and changes to existing products and processes.
- Creating process flowcharts, process FMEAs, process Control plans and Safety FMEAs, Safety Control plans
- PFMEA and Control Plans for Engines using Plex
- Worked with the engineering team to resolve ergonomic & assembly issues
- Handling of APP projects using PLEX & CAPP+
- Simplified assembly process with the help of Paper build, SWES & Build book
- Creating excel formula and macros as per project requirements

Software Platforms:

- | | | |
|------------------------|---------------------|----------------------------------|
| • Creo Parametric | • AutoCAD | • Microsoft Power BI |
| • Windchill and Enovia | • FactoryCAD | • Basics of Python |
| • TeamcenterMpp | • NX CAD | • Advanced Excel, Macros and VBA |
| • TeamcenterVismockup | • Plex, CAPP+ & MCS | |

Educational Qualifications:

- Completed B-tech in mechanical from GudlavalleruEngineering College, Gudlavalleru, with an aggregate of 70.5%
- Completed Diploma in Mechanical from AANM & VVRSR Polytechnic College, Gudlavalleru, Krishna District, and A.P with an aggregate of 80.81%
- Completed class X in the year 2007 from Sri ViswaSanthi High school, Vuyyuru with 76.66%

Co-circular Activities:

- A paper on “CAMLESS ENGINE” at AANM&VVRSR Polytechnic Gudlavalleru and won 2nd prize
- Presented a paper on “CAT CAR” at JNTU Kakinada University
- Participated workshops on CAD/CAE
- Participated in Technical Quiz and secured 1st prize at USHA RAMA College of engineering and technology Telaprolu

Academic Projects:

- “COMPOSITE MATERIALS ON GRAPHITE POWDER” as Leader for a team of ten during Diploma.
- “Experimental studies on variation of tool wear, cutting force, vibrations, noise and surface finish with respect to change in speed in turning operation”

KOLAPALLI NAVEEN KUMAR

GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
Seshadri Rao Knowledge Village, Gudlavalleru – 521356, Krishna District (A.P.)

Department of Mechanical Engineering

Attendies List for Guest Lecture on "Hyperworks" on 13.03.2021

S.No.	Roll No	Name of the Student
1	18481A0301	AALA RAJASEKHAR
2	18481A0302	ABDUL ABID
3	18481A0303	AKASH MAILA
4	18481A0305	ALLAM VENKATESH
5	18481A0306	ALLURI VEERA HANUMAN
6	18481A0307	AMBATI GANESH BABU
7	18481A0308	APPALAKUTTI VAMSI KRISHNA
8	18481A0309	ARAVAPALLI LOKESH KUMAR
9	18481A0310	ARUMALLA BHANU SYAM KUMAR
10	18481A0315	BATTULA MAHESH BABU
11	18481A0316	BEZAWADA GOVARDHAN RAO
12	18481A0317	BODIPOGU PAVAN KUMAR
13	18481A0323	CHERUKUVADA NEERAJ RAM
14	18481A0325	CHUKKA BHEEMESH
15	18481A0326	CHUNDURU SUBRAHMANYA KUMAR
16	18481A0327	DAGANI ANIL
17	18481A0329	DASARI DOONDI YESHWANTH
18	18481A0330	DASARI RAKESH
19	18481A0331	DASARI TEJA KUMAR
20	18481A0332	DEGALA HARI SAI TEJA
21	18481A0334	DUDDU TEJA SAI PRAVEEN
22	18481A0335	DUMPALA BHANU PRAKASH
23	18481A0337	GANJI SANDEEP
24	18481A0338	GEDDAM PRAVEEN REDDY
25	18481A0340	GOMATHOTI VISHAL VINCENT
26	18481A0341	GORIPARTHI PREM KUMAR
27	18481A0344	GUDIGUNTLA VIJAY
28	18481A0345	GULIPALLI HANEESH
29	18481A0346	GUMMADDI SUSANTH
30	18481A0348	IDAMAKANTI BRAHMA REDDY
31	18481A0349	JANAMALA BHANU PRAKASH
32	18481A0350	JASWANTH KALVA
33	18481A0351	JONNALAGADDA BHANU LAKSHMI VENKATA GANESH
34	18481A0352	BATTIPATI NIKITHA
35	18481A0353	ILURI MOUNIKA
36	18481A0354	KADARU SHYLATHI (W)
37	18481A0356	KALUMURI RAJA VENKATA YESHWANTH
38	18481A0357	KANDALA ROHITH
39	18481A0358	KANKATA RUSHIKETH
40	18481A0359	KANUMURI BHARATH BABU
41	18481A0362	KATAM SAMUEL MORRIS
42	18481A0363	KATIKINA TARAKA SIVA DURGHA RAO

Attendies List for Guest Lecture on "Hyperworks" on 13.03.2021

S.No.	Roll No	Name of the Student
43	18481A0364	KATTEPOGU DILEEP
44	18481A0365	KATURI SAI KIRAN
45	18481A0366	KHIZARUR RAHAMAN
46	18481A0367	KODURU VINAY PRASANTH
47	18481A0369	KOLUSU NAGA VIJAYKUMAR
48	18481A0370	KOMMU SIVA
49	18481A0371	KOTA VENKATA PAVAN TEJA
50	18481A0372	KOVURU SAI SARATH
51	18481A0373	KOVVALI RAKESH
52	18481A0374	KUNAPURAJU SAI NARAYANA
53	18481A0375	MADDALI KARTHIK
54	18481A0376	MAHALI GIREESH VARMA
55	18481A0377	MAHAMMAD IQBAL
56	18481A0378	MAKKENA LEELA HARISH
57	18481A0379	MALLEMPALLI JOHN EBENAZAR
58	18481A0380	MANDALA ANJI REDDY
59	18481A0381	MANDE SAM GABRIEL
60	18481A0382	MANGADODDI CHETAN VENKATA KOMAL KUMAR
61	18481A0385	MEENIGA NAVEEN KUMAR
62	18481A0386	MEKALA RAHUL
63	18481A0387	MOHAMMAD KHAJA MOIN
64	18481A0389	MOTUPALLI PRADEEP
65	18481A0390	MURALA ASWINI GOWD
66	18481A0391	MURARI DEVA PRAKASH GOWD
67	18481A0392	MUTYALA BALA VEERA VENKATA VINAYBABU
68	18481A0393	NAIDU LOKESH
69	18481A0394	NARAHARISSETTY TANISHQ
70	18481A0396	NELUPURI SANDEEP
71	18481A0397	NERUSU YASWANTH BABU
72	18481A0398	NIDADHAVOLU KESAVA SAI MURALI KRISHNA
73	18481A03A0	NUNE NAVEEN
74	18481A03A1	POTHANA YAMINI (W)
75	18481A03A2	PACHIGORLA TIRUMALA
76	18481A03A3	PADALA CHAITANYA KUMAR
77	18481A03A4	PALACHOLLA VEERA NARASIMHA MURTHY
78	18481A03A5	PASUPULETI V V S NARASIMHA PRAKASH
79	18481A03A6	PATAPATI RAMESH
80	18481A03A7	PEKETI KARTHIK REDDY
81	18481A03A8	POLUKONDA SRIDHAR
82	18481A03B0	PRESINGU SAI
83	18481A03B2	PULLAGURA MANOJ KUMAR
84	18481A03B4	PUPPALA TRINADH
85	18481A03B7	RAJULAPATI SHYAM VENKAT RAM
86	18481A03B9	RAMANI SAI NAGA RAJU
87	18481A03C1	REJETI SRI RAM
88	18481A03C3	SAJJALA KRISHNA TEJA
89	18481A03C8	SHAIK BARKATHALI
90	18481A03D2	TADANKI BHARGAV TEJA

Attendies List for Guest Lecture on "Hyperworks" on 13.03.2021


S.No.	Roll No	Name of the Student
91	18481A03D3	THOTA NAGA ARAVIND
92	18481A03D4	THOTA SIVA SANKAR
93	18481A03D6	VANNEMREDDY SIVA KANTH
94	18481A03D8	VASA VENKATA ARAVIND
95	18481A03D9	VEERABATHINA SIDDARTHA
96	18481A03E0	VEKANURU BALA VAMSI
97	18481A03E1	VEMIREDDY AKHIL
98	18481A03E2	VISSAKOTI BASVA SRI SAI NAGENDHRA
99	18481A03E4	YALLA THOMAS FINNY
100	18481A03E5	YARLAGADDA GNANENDRA VAMSI
101	18481A03E8	YARRAMSETTI TEJESWAR
102	18481A03E9	YENUMULA SAI SANDEEP
103	18481A03F0	YERUKAPATI SANJAY KUMAR
104	19485A0303	CHINTA VEERA VENKATA SUBRAHMANYAM
105	19485A0304	GUGULOTHU NAVEEN NAIK
106	19485A0305	ADOOTHU ESHWAR
107	19485A0306	CHANDANA ARUN KOWSHIK
108	19485A0307	CHOPPAVARAPU NEERAJ
109	19485A0308	DASARI KRISHNA VAMSI
110	19485A0309	KALIDINDI RAKESH
111	19485A0310	MUDRAGADDA KRUPA PAUL
112	19485A0312	JAKKULA MAHESH
113	19485A0313	JAKKULA SUNAND
114	19485A0314	KOLUKULA JAYA NAGA CHAITANYA
115	19485A0317	SRIKAKULAM VEERA VENKATA NAGA DURGA PRASAD
116	19485A0318	SRIPATHI ALEKHYA
117	19485A0320	NAKKELLA NARINAIDU
118	19485A0322	PINJALA YOGESH SIVA PURNA
119	19485A0323	VENNAPUSA LAKSHMA REDDY
120	19485A0325	REMALLI SUMANTH
121	19485A0326	SHAIK RIYAZ
122	19485A0327	SIMMA RAVI HEMANTH
123	19485A0328	SOBBANA CHANDRAHASS JOSHI
124	19485A0335	SRAVANAM DANESH


H.M.E.

PROGRAM REPORT

- Name of the Program** : A Guest Lecture on "**Hyperworks**"
- Dates** : 13.03.2021
- Details of the Resource Person** : Sri. K. Naveen Kumar, Lead Engineer, HCL Technologies Ltd., Hyderabad
- Objective of the Program** : To impart hands on training on Hyperworks simulation.
- Outcome of the Program** : Students are able to perform product analysis across various stages of design.
- No. of Participants** : 124
- Concluding Remarks** : HyperWorks provides easy-to-learn, effective workflows that leverage domain knowledge and increase team productivity, enabling the efficient development of today's increasingly complex and connected products..


Coordinator


H.M.E.
Head of the Department
Mechanical Engineering
Seshadri Rao
Gudlavalleru Engineering College
Seshadri Rao Knowledge Village
Gudlavalleru - 521 356, Krishna District. A.P.