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GURU NANAK INSTITUTE OF TECHNOLOGY

City Office: B2, 2nd Flr, Above Bata, Vikrampuri Colony, Karkhana Road, Secunderabad-50009, Telangana, India.
Ph: +91-40-6632 3294, 6517 6117, Fax: +91-40-2789 2633
Campus: Ibrahimpatnam, R.R. District, Hyderabad-501506, Telangana, India. Ph: (0/95) 8414-20 21 20/21

Date: 24.01.2019

CIRCULAR

Technical Training for IV B. Tech students are starting from 4th Feb, 2019 onwards. All Mentors and Placements coordinators have to manage the trainings and ensure 95% attendance all through the sessions.

All Mentors need to send the compiled feedback report to Dr.B.Vijaya Kumar, HOD at hodme.gnit@gniindia.org daily. Mentors are advised to take care of PNR (Students not participating in training).

Agenda:

Introduction to Hyper mesh.

HOD-ME

GNIT
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SYLLABUS FOR HYPERMESH

SNO.	TOPIC COVERED	DURATION (Hours)
1	Hyper Mesh Introduction	3
2	Applications of User Profiles	3
3	Import & export files	3
4	Geometry Clean-up	3
5	Mid surface Extraction	3
6	Meshing creation for Structural and Crash components	3
7	1D Meshing or Connectors –Weld and bolt connections	3
8	2D-Meshing/Shell Meshing - Plastic and BIW parts meshing	3
9	3D-Meshing/Solid Meshing - Casting / mould parts meshing	3
10	2D & 3D Elements Quality checking	3
11	Quality improvement	3
12	Introduction to Analysis	3
13	Defining Materials & properties	3
14	Analysis in HyperMesh/Hyper view	3
15	Results interpretation	3
16	Report generation	3

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Hypermesh Technical Training student list

Sl.No.	Roll No.	Name of the student	Year
1	15831A03F2	VANGA BALAKRISHNA	IV
2	15831A03F3	VANGA RAJEEV NARAYANA REDDY	IV
3	15831A03F4	VARASA SHANTHI KUMAR	IV
4	15831A03F5	VARIKUPPALA SRISAILAM	IV
5	15831A03F7	VENNELA NIKHITHA	IV
6	15831A03F8	VOJA ANAND SWAROOP	IV
7	16835A0321	VENKATA MANOHAR	IV
8	16835A0322	B ARAVIND	IV
9	16835A0323	B RAKESH	IV
10	16835A0324	CH. SREEKANTH	IV
11	16835A0325	M. KAVYA	IV
12	16835A0327	J. DEEPAK	IV
13	16835A0329	K. PRASHANTH REDDY	IV
14	16835A0331	K. PRUDVI RAJ	IV
15	16835A0332	K. ADHITYA VARDHAN	IV
16	16835A0335	M. NAZEER	IV
17	16835A0336	RAFEEQ	IV
18	16835A0337	M. SHANKAR REDDY	IV
19	16835A0339	N. MAHESH KUMAR	IV
20	16835A0340	O. SRINIVAS	IV
21	16835A0341	P. DURGAKISHORE	IV
22	16835A0342	P. KARTHICK	IV
23	16835A0343	P. VAMSI KRISHNA	IV
24	16835A0344	P. SHIVA KUMAR	IV
25	16835A0345	S. UJWALA	IV
26	16835A0346	T. PRASHANTH	IV
27	16835A0347	T. NAVANEETHA	IV
28	16835A0348	V. SAI KUMAR	IV
29	16835A0349	M. RAJESH	IV
30	16835A0350	V. AJAY KUMAR	IV

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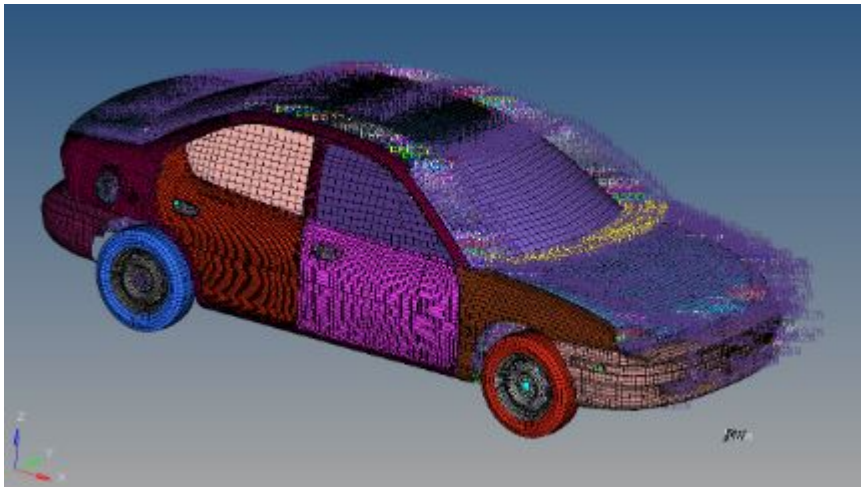
Technical Training Exam on Hypermesh Software

(A.Y-2018-19)

Answer All the Questions **2x10=20 Marks**

1. Mesh the given 3D model by using Hypermesh



2. Mesh the given 3D model by using Hypermesh

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Department of Mechanical Engineering

hypermeshTechnical Marks list 2017-18

Sl.No.	Roll No.	Name of the student	Marks	Pass/Fail
1	14831A0389	M SAITEJA	13	
2	14831A0391	MADARI AJAY KUMAR	12	
3	14831A0392	MADHADI SAI RAM	14	
4	14831A0393	MADIPALLI MANISHA	16	
5	14831A0395	MANDADI SAI KRISHNA	18	
6	14831A0396	MARABOINA VENKATESH	16	
7	14831A0397	MARADI MURALI KRISHNA	18	
8	14831A0398	MD AKHEEL	15	
9	14831A03A2	MOHAMMED ABDUL MUBHASHEER	16	
10	14831A03A3	MOHAMMED FAIZUDDIN	15	
11	14831A03A4	MUCHARLA NAVEENKUMAR	7	FAIL
12	14831A03A5	MUPPALLA KANTHI LOCHAN	14	
13	14831A03A6	MUTHAMSETTY VENKAT NAVEEN KUMAR	16	
14	14831A03A7	NAGANNA DHARMASOTH	18	
15	14831A03A8	NALGAY ANIL KUMAR	18	
16	14831A03A9	NANAVATH RAKESH	6	FAIL
17	14831A03B0	NANDIKI GANAPATHI	16	
18	14831A03B1	NATHI SHIVANI	16	
19	14831A03B2	PADIMALA SATYA SAI VAMSHI	7	FAIL
20	14831A03B3	PAILLA INDU REDDY	14	
21	14831A03B4	PARVATHAM NAVEEN	15	
22	14831A03B5	PENDYALA NAREDNDER REDDY	15	
23	14831A03B6	PODILA ABHIRAM	15	
24	14831A03B7	PUTTI THILAK	15	
25	14831A03B9	RACHARLA ANIL KUMAR	7	FAIL
26	14831A03C0	RASAMALLA SAI VENKAT	15	
27	14831A03C1	RAVILLA MADHURI	15	
28	14831A03C2	REDDYREDDY LALU PRASAD	14	
29	14831A03C4	RISHIKESH DESHPANDE	15	
30	14831A03C5	SADULA AJAY KUMAR	15	
31	14831A03C6	SAI TEJA ALUWALA	14	
32	14831A03C8	SANGOJI GAJANAND RAHUL RAO	15	
33	14831A03C9	SANKET JUGAL BIYANI	16	
34	14831A03D0	SHAIK NAZMUDDIN	13	
35	14831A03D1	SHAIK RESHMA	14	

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Department of Mechanical Engineering

Hypermesh COURSE

Summery

- Hyper Works is a comprehensive simulation platform for rapid design exploration and decision-making. Hyper Works provides a tightly integrated suite of best-in-class tools for all facets of the simulation process: modeling, analysis, optimization, visualization, reporting and collaborative simulation management. Leveraging a revolutionary pay-per-usage licensing model, Hyper Works delivers maximum value and flexibility for customers worldwide.
- The new **Entity Editor** provides an efficient way to create and edit cards in **HyperMesh**. Many attributes can be adjusted simultaneously across entities. Solver rules are captured to help set up new decks, and tooltips explain parameters without looking into the manual.
- Similarly **HyperView** offers an Entity Editor to modify attributes of multiple entities at the same time. **HyperGraph** introduced a Plot browser and an advanced Build Plots panel for efficient creation and manipulation of curves.
- **HyperMesh** offers two new meshing algorithms for CFD meshing. The Octree mesher is a fasterand high quality alternative to the proven advancing front meshing algorithm and can be used for other than CFD applications as well. There is also a new boundary layers generator combining the smoothness of existing algorithms with added robustness and user control to handle any complex model.
- The Adaptive Wrapper mesher is a quick and robust way to generate a closed surface mesh for complex models while maintaining model details.
- The Quality Index panel offers a patch checker allowing you to cycle through areas with elements failing user defined criteria. Additional improvements for mesh modification helps remove these conflicts throughout the review process.
- **HyperMesh** now has a dedicated Aerospace user profile providing many tools and processesspecific to the Aerospace industry, as well as composites applications of other verticals.
- The already efficient composites modeling process received a variety of useful updates. In addition to improved display and handling of plies and laminates, a review of orientations, elements, materials and ply systems is available in both HyperMesh and HyperView.
- **HyperWorks** includes a material library that allows searching and filtering a corporate material database. The application can also be connected to the material database of our Altair Partner Alliance partner “Key to Metals”.
- The ID Manager in **HyperMesh** organizes ID ranges for individual entities or include files and is available for the Nastran and LS-DYNA interfaces.

HOD-ME

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Certificate Of Course Completion

This certificate is presented to MADIPALLI MANISHA **Of GNIT, who has successfully completed technical training course on "HYPER MESH" held from** 18.10.2017 **to** 28.10.2017 **and found the student performance to be excellent.**

Mr. G.V.Ravi Teja
CEO of Canter CADD