



# LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

L. B. Reddy Nagar, Mylavaram – 521 230, N.T.R. District, Andhra Pradesh, India

Affiliated to JNTUK, Kakinada & Approved by AICTE New Delhi

Accredited by NBA under Tier – I, Accredited by NAAC with 'A' grade,

An ISO 21001:2018, 500001:2018, 14001:2015 Certified Institution

## DEPARTMENT OF AEROSPACE ENGINEERING

Estd.: 1998

Website: <https://www.lbrce.ac.in/ase/index.php> Email: [hodaero@lbrce.ac.in](mailto:hodaero@lbrce.ac.in) Phone: 08659-222933 Ext: 624/623

Date: 05-08-2025

### One Week Student Certification Program on “Practical FEA Using HYPERMESH and LS-DYNA”

#### PROGRAM DETAILS

<b>Title</b>	One Week Student Certification Program on “Practical FEA Using HYPERMESH and LS-DYNA”
<b>Faculty Coordinator</b>	<b>Mr. S. Indrasena Reddy</b> Senior Assistant Professor Dept of Aerospace Engineering <b>Mr. Nazumuddin Shaik</b> Senior Assistant Professor Dept of Aerospace Engineering
<b>Student Coordinator</b>	<b>MARADANA SHAM SRI JASMIN</b> Roll No.: 22761A5621 IV Year, Aerospace Engineering
<b>No. of Participants</b>	<b>45 Students</b> 39 Students from Aerospace Engineering (22 Batch IV Year-I Sem) 06 Students from Mechanical Engineering (22 Batch IV Year-I Sem)
<b>Event Type:</b>	<b>Certification program</b>
<b>Resource Persons</b>	Mr. B. R. M. V. Krishna, Simulation Engineer Mr. G. M. Raja Mahendra, Simulation Engineer Mr. Naveen, Junior Simulation Engineer Mayinkrish Ventures PVT LTD, Hyderabad
<b>Program Schedule</b>	<b>28-07-2025 to 02-08-2025</b>

#### **The objective of the event:**

This is a certification program on “Practical FEA Using HYPERMESH and LS-DYNA” and is specially meant for Engineering VII Semester Students.

#### **HYPERMESH:**

Hyper Mesh is a powerful computer-aided engineering (CAE) software tool used for mesh generation and pre-processing tasks in finite element analysis (FEA). Developed by Altair Engineering, Hyper Mesh is widely utilized for creating high-quality finite element models for various engineering simulations. Its capabilities include geometry

cleanup, meshing, and model assembly, allowing engineers to efficiently prepare complex models for structural, thermal, and fluid dynamics analyses. Hyper Mesh is known for its versatility and user-friendly interface, making it a popular choice in the aerospace, automotive, and other industries where advanced simulation and optimization are integral to the design process.

#### **LS-DYNA:**

LS-DYNA is a highly advanced finite element analysis (FEA) software package used for simulating complex real-world problems in various engineering disciplines. Developed by Livermore Software Technology Corporation (LSTC), LS-DYNA is particularly renowned for its capabilities in simulating dynamic events, including crash simulations, impact analysis, and explosions. It is widely employed in industries such as automotive, aerospace, defense, and manufacturing to predict and analyze the behavior of structures and materials under dynamic loading conditions. LS-DYNA's versatility extends to multi-physics simulations, allowing users to study interactions between multiple physical phenomena, such as structural mechanics, fluid dynamics, and thermal effects. Its robust capabilities make it a valuable tool for engineers and researchers tackling intricate problems involving nonlinearities and transient dynamics.

#### **Certification Program Schedule Day wise:**

##### **Day 1: 28-07-2025**

Introduction and applications of HYPERMESH & Space Claim

- What is FEA? Types of analysis (structural, thermal, crash)
- Role of preprocessing, solver, and postprocessing
- Explicit vs Implicit solvers: When and Why LS-DYNA?
- HYPERMESH interface walkthrough
- Geometry imports and cleanup tools (for 2D CAD)
- Element types: focus on 2D shell elements
- Hands-on: Import a 2D bracket, do geometry cleanup

##### **Day 2: 29-07-2025**

Meshing Basics and Shell Quality Criteria

- What are shell elements? When are they used?
- Shell meshing: Auto mesh, manual meshing
- Element quality parameters: Aspect ratio, skew, warpage
- Mesh flow and element density control
- Property assignment: thickness and material linking

- Hands-on: Meshing a sheet metal part + quality correction

### **Day 3: 30-07-2025**

#### Drop Test Basics in 2D with Shells

- Drop test applications: What does it validate?
- Gravity definition in LS-DYNA (DEFINE\_GRAVITY)
- Without gravity: Using initial velocity instead
- Defining rigid wall for impact surface
- Shell behaviour during impact (bending, contact)
- Hands-on: Simulate a drop test for a 2D flat object (phone plate) using both methods

### **Day 4: 31-07-2025**

#### Setting Up a Tensile Test Using Shell Elements

- Material card (MAT\_24 – Piecewise Linear Plasticity)
- Creating boundary conditions (fixed end, displacement loading)
- Defining contacts (no contact needed for simple tensile test)
- Control cards: Time step, output controls
- LS-DYNA deck export and solver run
- Hands-on: Set up and simulate a 2D mild steel tensile coupon

### **Day 5: 01-08-2025**

#### Result Visualization and Mini Project

- Stress, strain, deformation contours
  - Plotting Force vs Time, Energy graphs
- Comparing drop with and without gravity
- Mini-Project: Sheet metal bracket meshing (condition: no adjacent trias)
- Common LS-DYNA errors and debugging
- Bootcamp wrap-up and career discussion
- Example problems
- Dr P. Lovaraju addressed the gathering.

**The outcome of the event:**

- Introduce the **HYPERMESH** concepts and make familiar with the tools and techniques of its package. This certification program aims at providing **complete hands-on training** on FEA analysis. The program helped the participants to develop expertise in various aspects of HYPERMESH and LS-DYNA applications.
- This certification program helped the students to apply their knowledge in the basics of finite element analysis (FEA) and how to use it in structural design and analysis covered and Using HYPERMESH geometric tools to create and edit nodes, usage of 1D and 2D meshing techniques for different kinds of meshing, such as hexa, shell, and tetra.
- Similarly, LS-DYNA helped the students to understand transient dynamic problems which include nonlinearities.

**Feedback / Suggestions:**

- Feedback from students on the program has been overwhelmingly positive, with a high level of satisfaction noted. Students have conveyed a desire to enhance the effectiveness of certification programs through increased hands-on training for skill development.
- Students expressed to increase the conductivity of these kinds of certification programs with hands-on training for their technical skill development.

**Action Plan:**

- The action plan involves organizing additional certification programs led by industry experts. This initiative aims to provide students with practical, hands-on experiences to further enrich their skill development and practical understanding.

## Event Brochure

### ABOUT THE INSTITUTE

The Lakireddy Bali Reddy College of Engineering (LBRCE) was established in the year 1998 by Lakireddy Bali Reddy Charitable Trust, whose architect is Er. Lakireddy Bali Reddy garu. The institute is established with the sole aim of providing high quality educational opportunities in the field of science, engineering, technology and management. It is spread over 60 acres of sprawling lush green landscape spotted with orchids and grooves. It is approved by AICTE, affiliated to JNTUK, Kakinada and attained autonomous status in the year 2010. It attained NAAC accreditation status with 'A' Grade. The institute is certified by ISO: 9001-2015.

### ABOUT THE DEPARTMENT

The Department of Aerospace Engineering was started in the year 2011. The department offers 4 years undergraduate program, B.Tech in Aerospace Engineering. The department has a team of highly qualified, dedicated and motivated faculty and well-equipped laboratories. The department has laboratories, classrooms, faculty rooms, sophisticated lab equipments and well-versed library. The department has a wide range of teaching activities.

### ABOUT THE PROGRAMME

This is a one-week student certification program on "Practical FEA using HYPER MESH and LS-DYNA" and is specially meant for engineering final year students. Students have undergone the certification program with different Modules and various meshing Techniques for simple and complex geometrical models and Static, Dynamics Analysis of beams, columns, Impact Analysis, Crash Analysis, etc. recent years, the use of FEA Tools has become an important

in furthering a variety of fields of Engineering such as Mechanical, Aerospace, Civil, Electronics, etc.

### Course Contents:

- Space Claim
- HYPERMESH
  - Phases of FEA/CAE.
  - Introduction to Hyper mesh
  - Shortcut Keys
  - Creating and Modifying Geometry
  - Geometry Cleanup and Defeature.
  - Introduction to 2D Meshing
  - Element Quality.
  - Mesh Edit.
  - Sheet metal meshing (BIW parts)
  - Plastic meshing, Hexa Meshing
- LS-DYNA
  - Crash analysis
  - Drop test

The program covers the complex problems in the analysis with FEM and CFD to understand the application to the core

### ELIGIBILITY

The program is open for the graduate students of Dept. of Mechanical Engineering and Dept. Aerospace Engineering. In addition, the PG students of Dept. of Mechanical are eligible

### RESOURCE PERSONS

Mr.B.R.M.V. Krishna, Simulation Engineer  
Mr.G.M. Raja Mahendra, Simulation Engineer  
Mr.Naveen Junior Simulation Engineer  
Mayinkrish Ventures PVT LTD, Hyderabad.

Address for Correspondence & Registration  
Mr.S.Indrasena Reddy  
E-mail: indra.aero44@gmail.com  
Mobile: +91 -9885449822

One-Week student certification Program on  
"Practical FEA using HYPER MESH and LS-DYNA"  
28-07-2025 to 02-08-2025



### Chief Patrons

Sri Lakireddy Jaya Prakash Reddy  
Honorary Chairman  
Sri Lakireddy Prasad Reddy  
Chairman  
Sri Lakireddy Vijay Kumar Reddy  
Vice Chairman

### Patrons

Sri G. Srinivasa Reddy  
President, LBRCT  
Dr. K. Appa Rao  
Principal  
Dr. B.Ramesh Reddy  
Vice-Principal

### Convener






Dr.P.Lovaraju  
Professor & HOD  
Aerospace Engineering

### Co-ordinators

Mr.S.Indrasena Reddy  
Sr.Assistant Professor  
Dept of Aerospace Engineering  
Mr.Nazumuddin Shaik  
Sr.Assistant Professor  
Dept of Aerospace Engineering  
Organized by:

DEPARTMENT OF AEROSPACE ENGINEERING  
(Accredited by NBA under Tier-I)  
LAKIREDDY BALI REDDY COLLEGE OF  
ENGINEERING(AUTONOMOUS), MYLAVARAM  
N.T.R (D), A.P.

## Event Banner



**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING**  
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NAAC Accredited with "A" grade, Accredited by NBA  
New Delhi & Certified by ISO 9001:2015, <http://www.lbrce.ac.in>

**One Week Student Certification Program**  
On  
**Practical FEA Using**  
**HYPERMESH and LS-DYNA**

*In Association with*  
**MAYINKRISH VENTURES PVT. LTD**

*During*  
**28-07-2025 to 02-08-2025**

*Organized by*  
**Department of Aerospace Engineering**



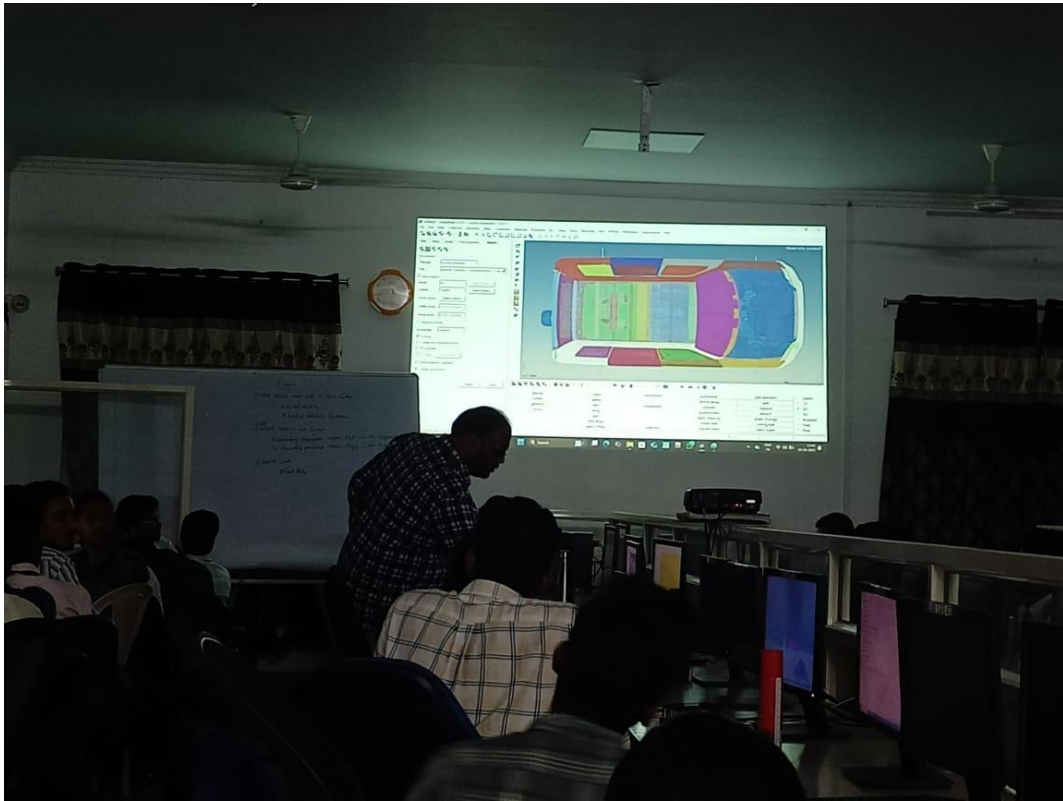
## **Photographs**



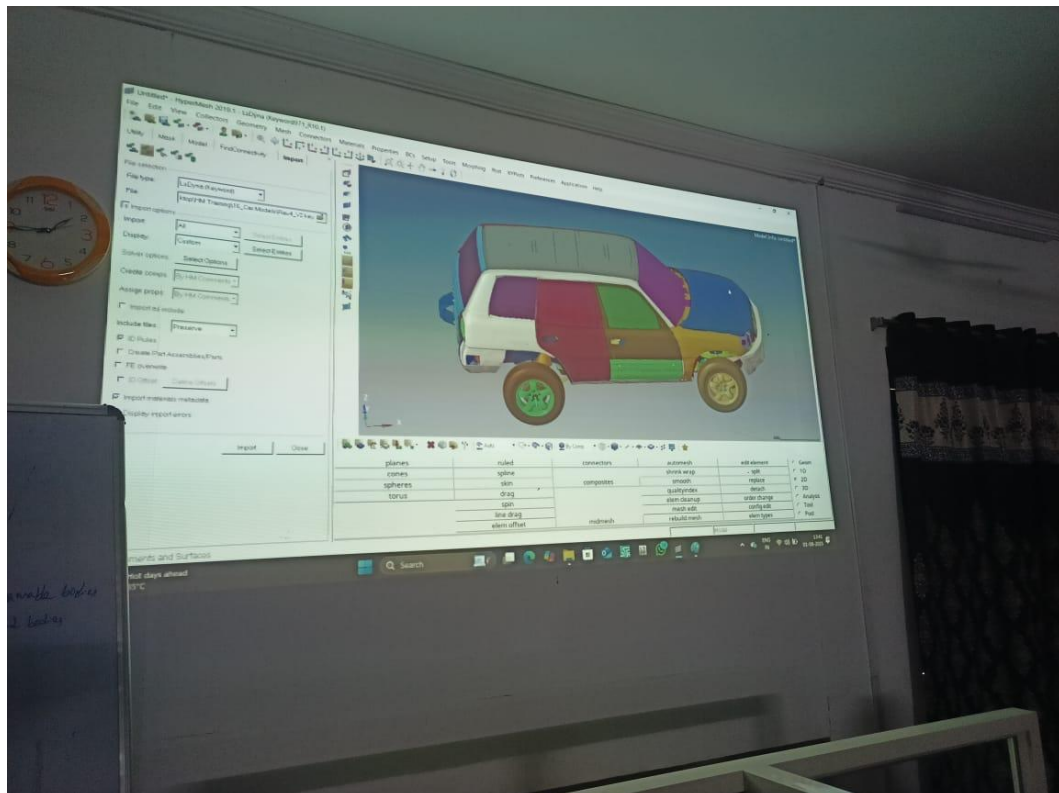
Photograph.1: Mr. G. M. Raja Mahendra and Dr. P. Lovaraju, Professor & HoD interacting with the students



Photograph.2: Mr. G. M. Raja Mahendra explaining HYPERMESH



Photograph.3: Mr. B. R. M. V. Krishna Explaining the LS-Dyna Analysis

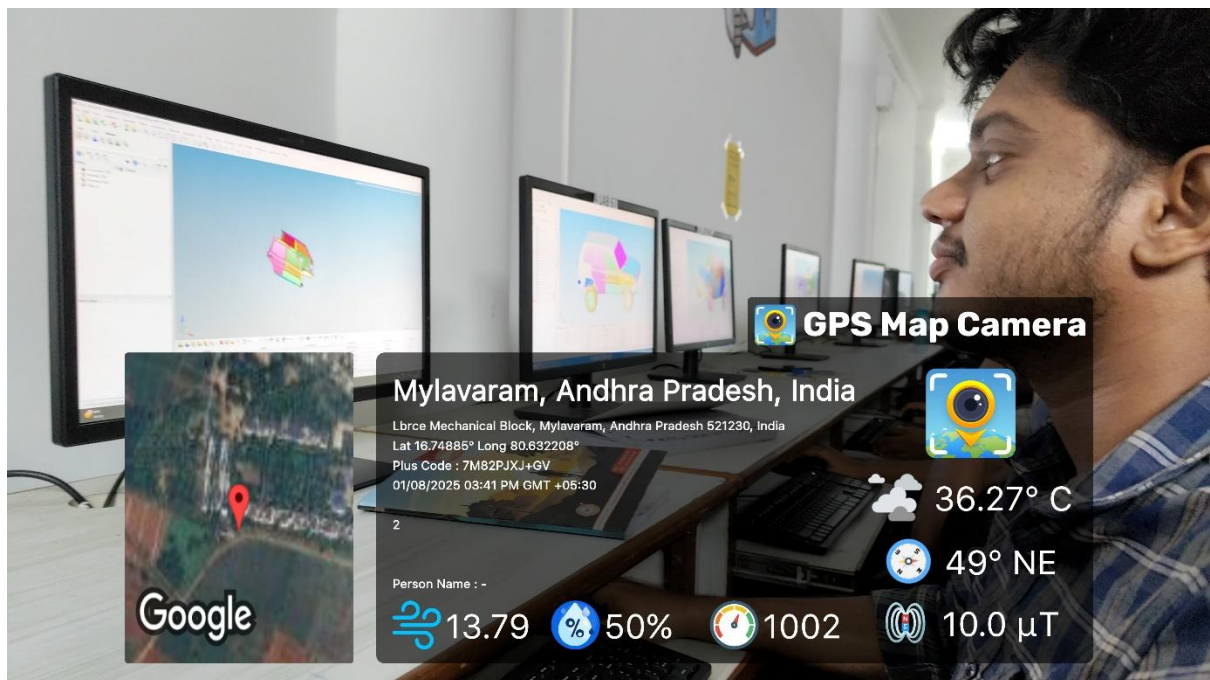


Photograph.4: CAR Model for LS-Dyna Analysis





Photograph.5: Mr. B. R. M. V. Krishna Explaining the LS-Dyna Analysis



Photograph.6: Students practicing the LS-Dyna Analysis



## **LIST OF STUDENTS REGISTERED**

**One Week Student Certification Program on "Practical FEA using HYPERMESH and  
LS-DYNA" (28-07-25 to 02-08-25)  
AEROSPACE ENGINEERING STUDENTS**

<b>S. No.</b>	<b>Roll. No.</b>	<b>Name of the Student</b>
1	22761A5604	ASHRAF AHMAD
2	22761A5608	DEVIREDDY NISANTH REDDY
3	22761A5609	DUVVI ANITHASRI
4	22761A5610	GOKANAKONDA SUREKHA
5	22761A5612	GULLIPALLI KEERTHI
6	22761A5613	JAGILINKI HITESH SRINIVASA MANIKANTA
7	22761A5614	JONNA BHANUSH
8	22761A5618	KROSURI THRONI SAROJA
9	22761A5619	LAKKIREDDY BHAVANI
10	22761A5620	LITHIN SIDDARDHA AMBATI
11	22761A5621	MARADANA SHAM SRI JASMIN
12	22761A5623	MOHAMMED SAMEER
13	22761A5624	MOHAMMED ZAHEERUDDIN
14	22761A5626	NAGOORU KARTHIKEYA SAI
15	22761A5627	NEELAM SANDEEP SARVAN
16	22761A5629	PALLIPAMU PHANI KUMAR
17	22761A5630	PENTAKOTA KIRAN KUMAR
18	22761A5632	POSSAMSETTI VENKAT RAO
19	22761A5633	POTHIREDDY BHASKAR REDDY
20	22761A5634	PYDIPAMULA KOMALI
21	22761A5636	SEETHA RAVI TEJA
22	22761A5637	SHAIK ARIF
23	22761A5638	SHAIK FIROZUDDIN
24	22761A5639	SHAIK FIYAZ
25	22761A5642	TADISETTI BHARGAV SRI RAM
26	22761A5644	THODETI HONEY AJANTAIN
27	22761A5646	VELPULA DIYA SUNIL
28	22761A5647	YADLAPALLI VINEETHVARDHAN
29	22761A5648	YARRAGORLA SRINU
30	23765A5601	BULLA JOSHI BABU
31	23765A5602	DALI VENKATA SIVA NAGESWARARAO
32	23765A5603	DOPPALA ADI

33	23765A5605	JYOTHI SHANMUKHA CHANDRA MOULESWAR
34	23765A5606	KOKKILIGADDA HEMANTH
35	23765A5608	KOMARAVALLI AVINASH
36	23765A5609	KOWTHARAPU VENKATA MOHAN BALA NAGA SYAM
37	23765A5610	NEELURI THAMBI JOSEPH
38	23765A5611	PURRE KIRAN KUMAR
39	23765A5613	VOOTA DEVENDRA
<b>MECHANICAL ENGINEERING STUDENTS</b>		
40	23765A0302	ASILETI DAVID LIVINGSTON
41	23765A0305	BATHULA DURGA RAO
42	23765A0314	JATAVATHU HANUMA NAIK
43	23765A0328	RUPAAVATH SAI SRI CHARAN
44	23765A0333	SHAIK NAZEER BASHA
45	23765A0337	ULICHI ABHINAV

# Attendance Sheet



## LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

L.B.Reddy Nagar, Molavaram - 521 230, N.T.R. District, Andhra Pradesh, India  
Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi  
Accredited by NAAC with 'A' grade, An ISO 9001:2015 Certified Institution  
DEPARTMENT OF AEROSPACE ENGINEERING  
Website: <http://www.lbrce.ac.in> / <http://www.lbrce.ac.in/ase/index.php> Email: [lbrcease@lbrce.ac.in](mailto:lbrcease@lbrce.ac.in) Phone: 086659 222933 Fax: 674 673

### One Week Student Certification Program on Practical FEA using HYPERMESH and LS-DYNA -Attendance Sheet

Date: 28-07-2025

S.No.	Roll. No.	Name of the Student	28-07-25		29-07-25		30-07-25		31-07-25		01-08-25		02-08-25	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	22761A5604	ASHRAF AHMAD	Abraf	Ahraf	Abraf	Ahraf	Abraf	Ahraf	Abraf	Ahraf	Abraf	Ahraf	Abraf	Ahraf
2	22761A5608	DEVIREDDY NISANTHI REDDY	Dvireddy	Nsanthi	Dvireddy	Nsanthi	Dvireddy	Nsanthi	Dvireddy	Nsanthi	Dvireddy	Nsanthi	Dvireddy	Nsanthi
3	22761A5609	DUVVI ANITHASRI	Duvvi	Anithasri	Duvvi	Anithasri	Duvvi	Anithasri	Duvvi	Anithasri	Duvvi	Anithasri	Duvvi	Anithasri
4	22761A5610	GOKANAKONDA SUREKHA	Gokanaka	Surekha	Gokanaka	Surekha	Gokanaka	Surekha	Gokanaka	Surekha	Gokanaka	Surekha	Gokanaka	Surekha
5	22761A5612	GULLIPALLI KEERTHI	Gullipalli	Keerthi	Gullipalli	Keerthi	Gullipalli	Keerthi	Gullipalli	Keerthi	Gullipalli	Keerthi	Gullipalli	Keerthi
6	22761A5613	JAGILINKI HITLESH SRINIVASA MANIKANTA	Jagilinki	Hitles	Jagilinki	Hitles	Jagilinki	Hitles	Jagilinki	Hitles	Jagilinki	Hitles	Jagilinki	Hitles
7	22761A5614	JONNA BHANUSHI	Jonna	Bhanushi	Jonna	Bhanushi	Jonna	Bhanushi	Jonna	Bhanushi	Jonna	Bhanushi	Jonna	Bhanushi
8	22761A5618	KROSURI THIRONI SAROJA	Krosuri	Thironi	Krosuri	Thironi	Krosuri	Thironi	Krosuri	Thironi	Krosuri	Thironi	Krosuri	Thironi
9	22761A5619	LAKKIREDDY BHAVANI	Lakkireddy	Bhavani	Lakkireddy	Bhavani	Lakkireddy	Bhavani	Lakkireddy	Bhavani	Lakkireddy	Bhavani	Lakkireddy	Bhavani
10	22761A5620	LITHIN SIDDARDHA AMBATI	Lithin	Siddardha	Lithin	Siddardha	Lithin	Siddardha	Lithin	Siddardha	Lithin	Siddardha	Lithin	Siddardha
11	22761A5621	MARADANA SHAM SRI JASMIN	Maradana	Sham	Maradana	Sham	Maradana	Sham	Maradana	Sham	Maradana	Sham	Maradana	Sham
12	22761A5623	MOHAMMED SAMEER	Mohammed	Sameer	Mohammed	Sameer	Mohammed	Sameer	Mohammed	Sameer	Mohammed	Sameer	Mohammed	Sameer
13	22761A5624	MOHAMMED ZAHIRUDDIN	Mohammed	Zahiruddin	Mohammed	Zahiruddin	Mohammed	Zahiruddin	Mohammed	Zahiruddin	Mohammed	Zahiruddin	Mohammed	Zahiruddin
14	22761A5626	NAGOORU KARTHIKEYA SAI	Nagooru	Karthikeya	Nagooru	Karthikeya	Nagooru	Karthikeya	Nagooru	Karthikeya	Nagooru	Karthikeya	Nagooru	Karthikeya
15	22761A5627	NEELAM SANDEEP SARVAN	Neelam	Sandeep	Neelam	Sandeep	Neelam	Sandeep	Neelam	Sandeep	Neelam	Sandeep	Neelam	Sandeep
16	22761A5629	PALLIPAMU PHANI KUMAR	Pallipamu	Phani	Pallipamu	Phani	Pallipamu	Phani	Pallipamu	Phani	Pallipamu	Phani	Pallipamu	Phani
17	22761A5630	PENTAKOTA KIRAN KUMAR	Pentakota	Kiran	Pentakota	Kiran	Pentakota	Kiran	Pentakota	Kiran	Pentakota	Kiran	Pentakota	Kiran
18	22761A5632	POSSAMSETTI VENKAT RAO	Possamsetti	Venkat	Possamsetti	Venkat	Possamsetti	Venkat	Possamsetti	Venkat	Possamsetti	Venkat	Possamsetti	Venkat

S.No.	Roll. No.	Name of the Student	28-07-25		29-07-25		30-07-25		31-07-25		01-08-25		02-08-25	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
19	22761A5633	POTHIREDDY BHASKAR REDDY	Pothireddy	Bhaskar	Pothireddy	Bhaskar	Pothireddy	Bhaskar	Pothireddy	Bhaskar	Pothireddy	Bhaskar	Pothireddy	Bhaskar
20	22761A5634	PYDIPAMULA KOMALI	Pydipamula	Komali	Pydipamula	Komali	Pydipamula	Komali	Pydipamula	Komali	Pydipamula	Komali	Pydipamula	Komali
21	22761A5636	SILITHA RAVI TEJA	Silitha	Ravi	Silitha	Ravi	Silitha	Ravi	Silitha	Ravi	Silitha	Ravi	Silitha	Ravi
22	22761A5637	SHAIK ARIF	Shaik	Arif	Shaik	Arif	Shaik	Arif	Shaik	Arif	Shaik	Arif	Shaik	Arif
23	22761A5638	SHAIK FIROZUDDIN	Shaik	Firozuddin	Shaik	Firozuddin	Shaik	Firozuddin	Shaik	Firozuddin	Shaik	Firozuddin	Shaik	Firozuddin
24	22761A5639	SHAIK FIYAZ	Shaik	Fiyaz	Shaik	Fiyaz	Shaik	Fiyaz	Shaik	Fiyaz	Shaik	Fiyaz	Shaik	Fiyaz
25	22761A5642	TADISETTI BHARGAV SRI RAM	Tadiseti	Bhargav	Tadiseti	Bhargav	Tadiseti	Bhargav	Tadiseti	Bhargav	Tadiseti	Bhargav	Tadiseti	Bhargav
26	22761A5644	THODETI HONEY AJANTAIN	Thodeti	Honey	Thodeti	Honey	Thodeti	Honey	Thodeti	Honey	Thodeti	Honey	Thodeti	Honey
27	22761A5646	VELPULA DIYA SUNIL	Velpula	Diya	Velpula	Sunil	Velpula	Diya	Velpula	Sunil	Velpula	Diya	Velpula	Sunil
28	22761A5647	YADLAPALLI VINEETHVARDHAN	Yadlapalli	Vineethvardhan	Yadlapalli	Vineethvardhan	Yadlapalli	Vineethvardhan	Yadlapalli	Vineethvardhan	Yadlapalli	Vineethvardhan	Yadlapalli	Vineethvardhan
29	22761A5648	YARRAGORLA SRINU	Yarragorla	Srinu	Yarragorla	Srinu	Yarragorla	Srinu	Yarragorla	Srinu	Yarragorla	Srinu	Yarragorla	Srinu
30	23765A5601	BULLA JOSHI BABU	Bulla	Joshi	Bulla	Babu	Bulla	Joshi	Bulla	Babu	Bulla	Joshi	Bulla	Babu
31	23765A5602	DALI VENKATA SIVA NAGESWARARAO	Dali	Venkata	Dali	Siva	Dali	Nageswararao	Dali	Venkata	Dali	Siva	Dali	Nageswararao
32	23765A5603	DOPPAI.A ADI	Doppai	Adi	Doppai	Adi	Doppai	Adi	Doppai	Adi	Doppai	Adi	Doppai	Adi
33	23765A5605	JYOTHI SHANMUKHA CHANDRA MOULESWAR	Jyothi	Shanmukha	Jyothi	Chandra	Jyothi	Mouleswar	Jyothi	Shanmukha	Jyothi	Chandra	Jyothi	Mouleswar
34	23765A5606	KOKKILIGADDA HEMANTH	Kokkiligadda	Hemant	Kokkiligadda	Hemant	Kokkiligadda	Hemant	Kokkiligadda	Hemant	Kokkiligadda	Hemant	Kokkiligadda	Hemant
35	23765A5608	KOMARAVALLI AVINASH	Komaravalli	Avinash	Komaravalli	Avinash	Komaravalli	Avinash	Komaravalli	Avinash	Komaravalli	Avinash	Komaravalli	Avinash
36	23765A5609	KOWTHARAPU VENKATA MOHAN BALA NAGA SYAM	Kowtharapu	Venkata	Kowtharapu	Mohan	Kowtharapu	Bala	Kowtharapu	Naga	Kowtharapu	Syam	Kowtharapu	Bala
37	23765A5610	NEELURI THAMBI JOSEPH	Neeluri	Thambi	Neeluri	Joseph	Neeluri	Thambi	Neeluri	Joseph	Neeluri	Thambi	Neeluri	Joseph
38	23765A5611	PURRE KIRAN KUMAR	Purre	Kiran	Purre	Kumar	Purre	Kiran	Purre	Kumar	Purre	Kiran	Purre	Kumar
39	23765A5613	VOOTA DEVENDRA	Voota	Devendra	Voota	Devendra	Voota	Devendra	Voota	Devendra	Voota	Devendra	Voota	Devendra

Signature of Faculty Co-ordinators

Head of the Department