PRAGATI ENGINEERING COLLEGE

(Autonomous)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CIRCULAR

Academic Year: 2025-26

Date: 23.03.2026

We are happy to inform you that an **Industrial Visit to K.P.R. AGROCHEM LIMITED, Biccavolu, East Godavari district** is scheduled to be conducted for **III YEAR B.Tech Electrical and Electronics Engineering** students. This visit will provide valuable insights into electrical systems and their applications in industrial environments. Students will gain insights into power distribution, motor control systems, automation processes, control panels, and maintenance practices used in agrochemical industries. This practical exposure will strengthen their core knowledge and provide a clear understanding of real-time electrical engineering applications in industry. The visit is organized by the **Department of Electrical and Electronics Engineering** in association with the **Institution Innovation Council (IIC) and IE(I) Student Chapter of EEE.**

Interested students are invited to participate as per the schedule below:

Date & Time of Event: 24-03-2026

Venue: K.P.R. AGROCHEM LIMITED, Biccavolu, East Godavari district

Company: K.P.R. AGROCHEM LIMITED

FacultyCoordinators:

Mr. D.PRAKASARAO

Mr. S. NANI BABU

Ms. P. SANDHYA

D. Prakasa Rao
COORDINATOR

HOD-EEE
23/3/26

PRAGATI ENGINEERING COLLEGE (A) EEE-HOD SURAMPALEM

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Report on Industrial Visit

Visit to KPR Agro Chem ltd, Biccavolu

Date of Visit: 24 March 2026

Organized by: Pragati Engineering College

Venue: KPR Agro Chem Limited, Biccavolu

Faculty Coordinators: Mr. D. Prakasa Rao and Ms. P. Sandhya

Academic year: 2023-2027

Number of Students Attended: 72

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ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

ACKNOWLEDGMENT

The Department of Electrical and Electronics Engineering takes this opportunity to express its sincere gratitude to the Management of Pragati Engineering College for providing continuous encouragement and support towards organizing industrial visits that bridge the gap between theoretical knowledge and practical exposure.

We are thankful to our respected Principal sir. **Dr. G. Naresh**, for his valuable guidance and approval for this educational tour. We also extend our heartfelt appreciation to the KPR Agro Chem Limited, Biccavolu for granting us permission to visit the factory and for providing valuable insights into the working of the Agro Chem factory. Their informative session, live demonstration, and patient explanation of technical details greatly enriched the knowledge of our students.

We would also like to sincerely thank our Faculty Coordinators, **Mr. D. Prakasa Rao** and **Ms. P. Sandhya** for their tireless efforts in planning, coordinating, and accompanying the students during the visit. Last but not least, we acknowledge the enthusiastic participation of our III Year EEE students, whose interest and discipline made the visit a successful and enriching learning experience.

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1. INTRODUCTION

The Department of Electrical and Electronics Engineering at Pragati Engineering College organized an industrial visit to **KPR Agrochem Limited, Biccavolu**, a leading agri-input company engaged in manufacturing, distribution, and retailing of crop yield–enhancing and protection products. The visit aimed to provide students with practical exposure to **industrial chemical processes, agro-based technologies, and sustainable practices**, bridging the gap between academic learning and industrial applications.

2. OBJECTIVE

- To understand the manufacturing processes of agrochemicals, nutrients, and feed supplements.
- To gain insights into sulphuric acid production and its industrial applications.
- To observe large-scale production, packaging, and distribution systems.
- To learn about safety protocols and eco-friendly initiatives in agrochemical industries.

3. TECHNICAL OVERVIEW OF KPR AGROCHEM LIMITED

KPR Agrochem Limited operates across the **agri-value chain**, offering products from **seeds to crop nutrients, crop protection, and veterinary feed supplements**.

- **Crop Protection Products:** Pesticides, herbicides, fungicides.
- **Crop Nutrients:** Magnesium Sulphate, Di-Calcium Phosphate, Vermicompost.
- **Seeds & Veterinary Feed Supplements:** Supporting farmers and livestock health.
- **Sulphuric Acid Manufacturing:** To secure supply of a critical raw material, the company produces sulphuric acid and related chemicals such as **LABSA (Linear Alkyl Benzene Sulphonic Acid)** and **Oleum**, which have applications in agrochemicals, veterinary feed supplements, pharmaceuticals, and synthetic detergents.

4. OBSERVATION DURING THE VISIT

During the visit to KPR Agrochem Limited, Biccavolu, students observed several advanced industrial processes and operations that enhanced their practical understanding of agrochemical manufacturing and sulphuric acid–based chemical production. Key highlights include:

- **Sulphuric Acid Production (Contact Process):** Students learned how sulphur dioxide (SO_2) is converted to sulphur trioxide (SO_3) through catalytic oxidation using vanadium pentoxide, followed by absorption in concentrated sulfuric acid to form oleum, which is later diluted to produce sulfuric acid.
- **Agrochemical Manufacturing Units:** Production lines for crop protection products such as pesticides, herbicides, and fungicides, along with crop nutrients like Magnesium Sulphate, Di-Calcium Phosphate, and Vermicompost, were observed.
- **LABSA and Oleum Facilities:** Specialized plants producing LABSA (used in detergents) and oleum (intermediate for sulfuric acid) demonstrated the company's integration across multiple industries.
- **Quality Control Laboratories:** Testing facilities ensured chemical composition accuracy, product reliability, and compliance with safety standards.
- **Safety Protocols:** Strict measures including protective gear, controlled chemical handling, and emergency response systems were explained and demonstrated.
- **Environmental Management:** Waste treatment systems and eco-friendly initiatives such as vermicompost production highlighted the company's commitment to sustainability.
- **Distribution and Retail Systems:** Students observed packaging, labeling, and logistics operations that support KPR Agrochem's wide retail network across the agri-value chain.

5.KEY LEARNINGS

- Students gained practical exposure to agrochemical and sulphuric acid manufacturing.
- They understood the **Contact Process** for converting SO_2 to SO_3.
- Learned the importance of safety, quality control, and sustainability in industry.
- Observed how KPR Agrochem integrates across the agri-value chain.

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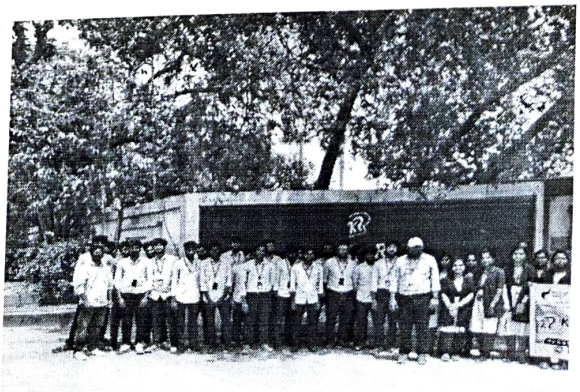
6.STUDENT FEEDBACK

Students found the visit highly informative and motivating. They appreciated seeing real-world applications of classroom concepts, valued the company's focus on safety and eco-friendly practices, and felt inspired to explore careers in chemical and agro-based industries.

7.CONCLUSION

The visit to **KPR Agrochem Limited, Biccavolu** provided valuable insights into industrial operations and reinforced theoretical knowledge with practical learning. It was a successful and enriching experience that bridged the gap between academics and industry.

PHOTOS



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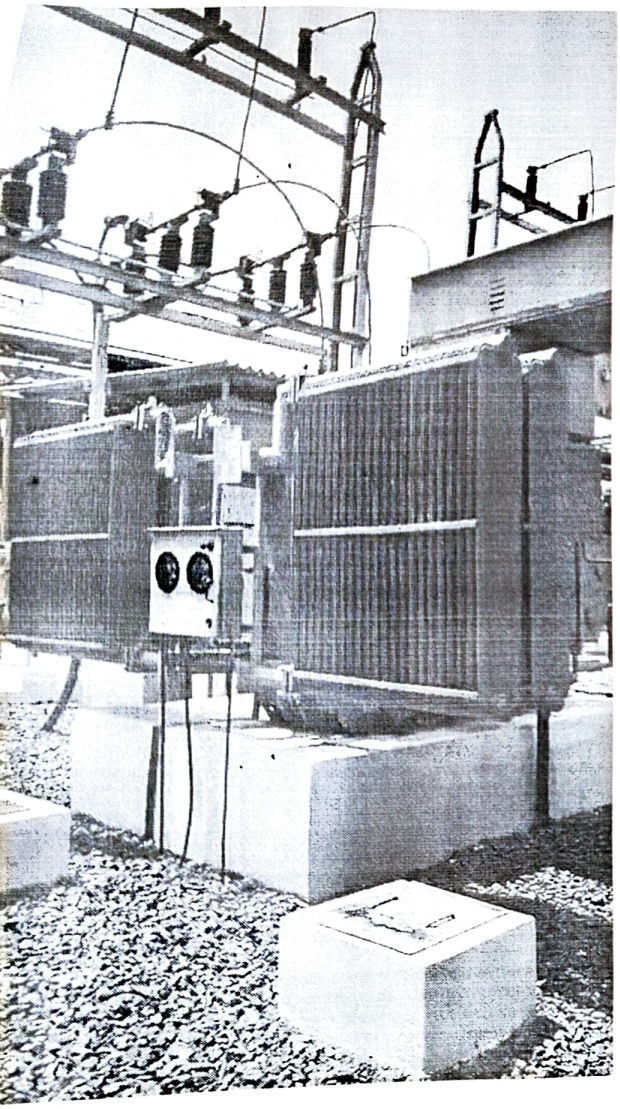

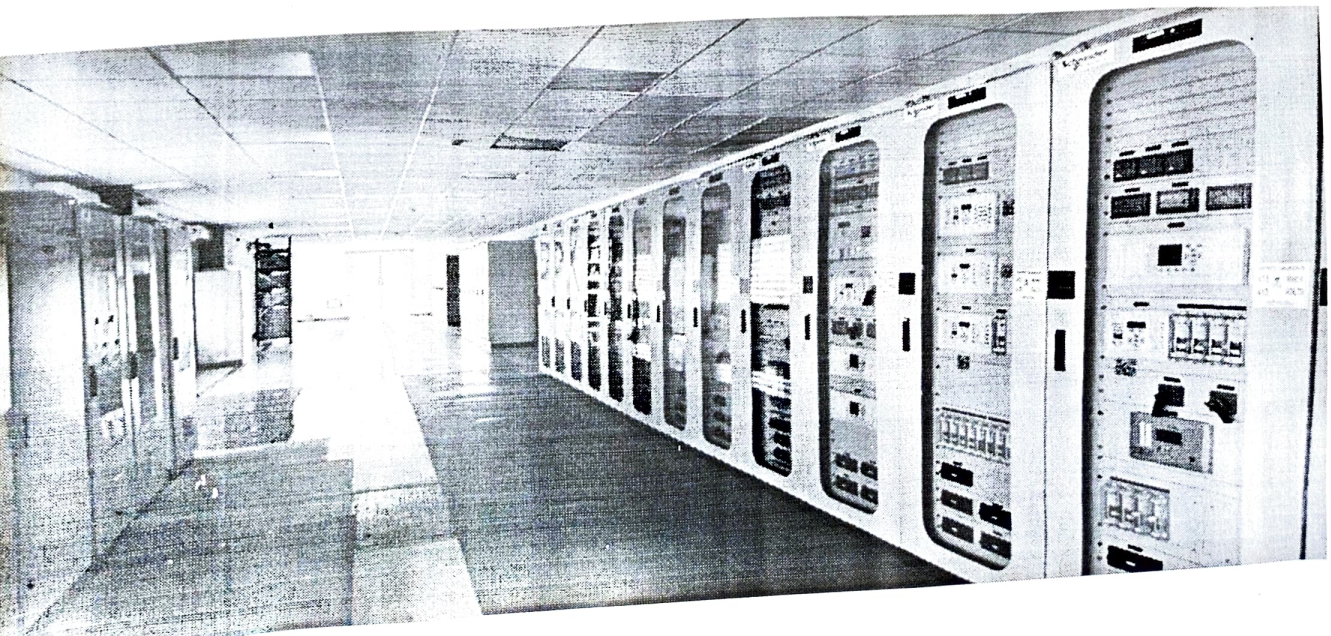

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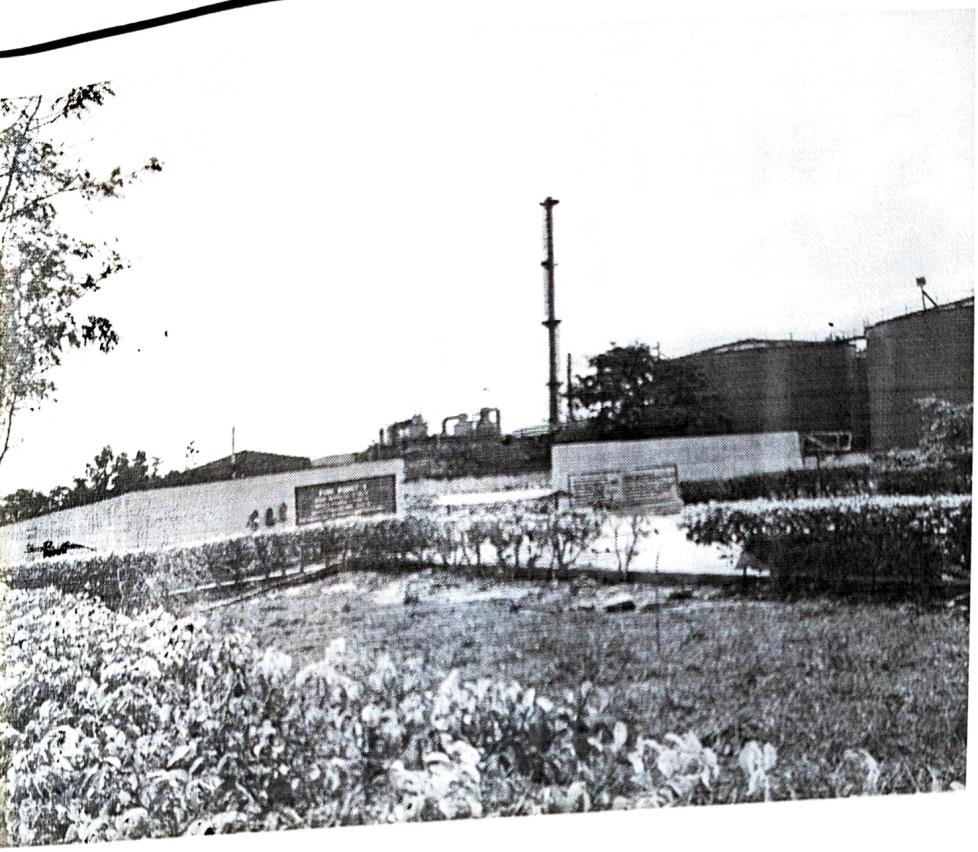

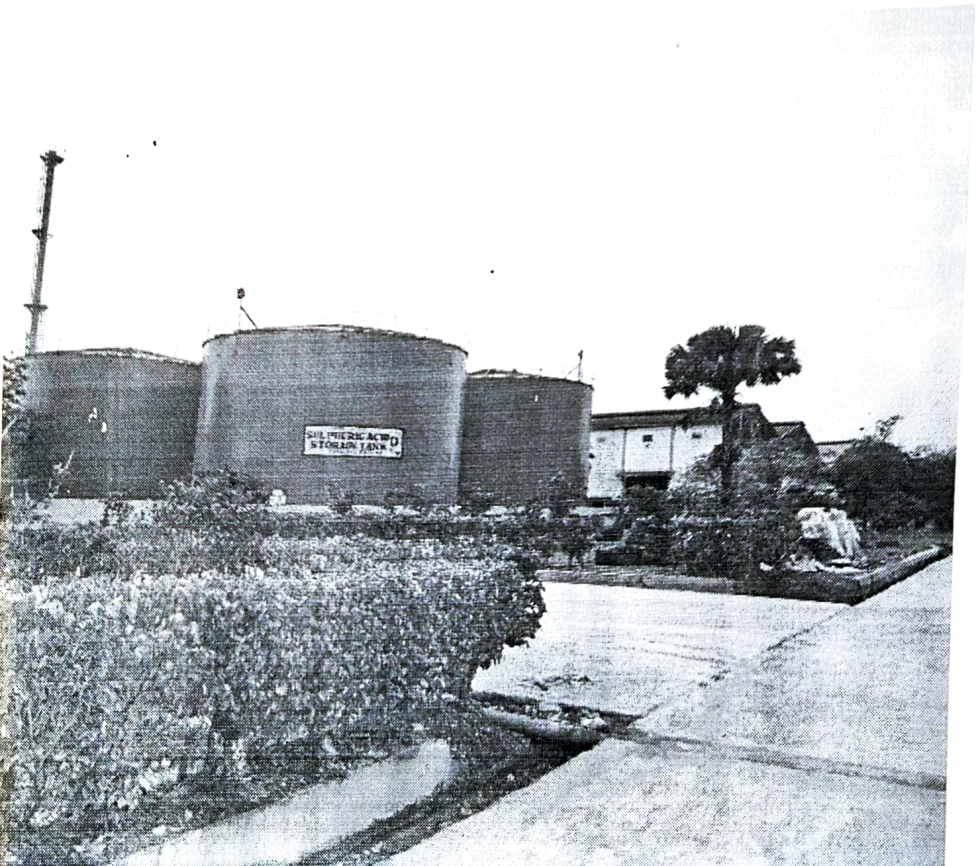

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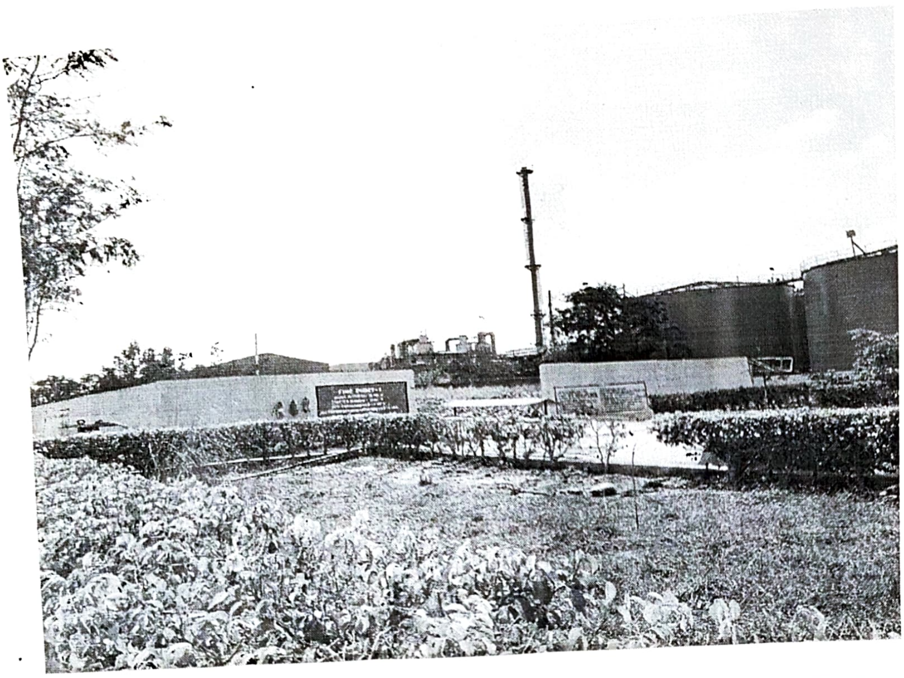

INSTITUTION'S INNOVATION COUNCIL

MoE's INNOVATION CELL (GOVERNMENT OF INDIA)

Industry Institution Interaction (III) Cell in association with Institution Innovation Council (IIC) and IE Chapter of Electrical and Electronics Engineering Department organizes

INDUSTRIAL VISIT TO

K.P.R Agrochem Limited

Biccavolu

Date : 24-03-2026

For II & III year B.Tech Electrical and Electronics Engineering

Pragati Engineering College (AUTONOMOUS)

D. ....
CO-ORDINATOR

25/3/26
HOD-EEE

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Learning is Supreme Duty

PRAGATI ENGINEERING COLLEGE
(AUTONOMOUS)

ELECTRICAL AND ELECTRONICS ENGINEERING

List of III year students & faculty for industrial visit on 24.03.2026

S.No.	Roll No.	Student Name
1	23A31A0201	ADABALA NAVYA SATYA SRI
2	23a31a0202	CHAITANYA JYOTHIKA BOGANADUNI
3	23A31A0203	GOWTHU ANUSHA
4	23A31A0204	GUNNAM VARSHITHA
5	23A31A0205	KARRI MALLISWARI
6	23A31A0206	KONDETI ASWINI
7	23A31A0207	KOPPISETTI SUMATHI
8	23A31A0208	KUCHIMANCHI LALITHA SRI
9	23A31A0209	MALLIPUDI POOJA KOWSIKA
10	23A31A0210	MAMADALA UMA NAGESWARI
11	23A31A0211	MEDIDI BABY SRI VIDYA
12	23A31A0212	PARVATALA SRAVANI
13	23A31A0213	PASUPULETI DEVI SAI RAMYA
14	23A31A0214	PEKETI SOWMYA
15	23A31A0215	PEKETI VEERA INDU PRIYADARSHINI
16	23A31A0216	PEMMANABOYINA CHANDINI
17	23A31A0217	PINNINTI JYOTHSNA PRIYA
18	23A31A0218	RAJANALA CHANDANA SAHITHI
19	23A31A0219	ROUTHU SRAVANI m
20	23A31A0220	VEERA VENKATA SATYA ANJANI KUMARI KOTTAPALLI
21	23A31A0221	VELAGA THARANGINI
22	23A31A0222	VYSHNAVIKA BURLU
23	23A31A0223	YAMANA TRIHASHA
24	23A31A0224	BATCHU SRI DIVYA
25	23A31A0225	BARRE PRAVEEN KUMAR
26	23A31A0226	BUDDEPU AJAY
27	23A31A0227	BURRA HEMA SUNDAR
28	23A31A0228	DARLA SAI PHANI KUMAR
29	23A31A0229	EMANI V U N SAI HIMAVARSHA
30	23A31A0230	GATTI BALAKRISHNA
31	23A31A0231	JAKKI AJAY
32	23A31A0232	KATTA VENKATESH
33	23A31A0233	KETAN JAIN
34	23A31A0234	KONADA JAGATHA

35	23A31A0235	KOPPADA KOUSHIK
36	23A31A0236	KOTIPALLI VENKATA SAI ATCHYUTH
37	23A31A0237	KSHATRIYA SURYA TEJA SINGH
38	23A31A0238	MALLIREDDY RAM
39	23A31A0239	MANCHEELA SUDHAKAR
40	23A31A0240	MANTRI VAMSI
41	23A31A0241	MATTAPARTHI MURALI KRISHNA
42	23A31A0242	MEDIDI SIVAJIKAPU
43	23A31A0243	MUMMIDI KIRAN
44	23A31A0244	MUNUKUTLA YAGNA SRI KARTHIK
45	23a31a0245	NAGULAKONDA SAI TEJA VIGNESH
46	23A31A0246	NIMMANA VEERA VENKATA SATYANARAYANA MURTHY
47	23A31A0247	ORUGANTI A N V SATYA MANIKANTA
48	23A31A0248	PENTAKOTA CHNADRA SEKHAR
49	23A31A0249	PILLI SUJAY
50	23A31A0250	PINAPATHRUNI SEKHAR
51	23A31A0251	PITTA MOSHE
52	23A31A0252	POTHABATHULA DILEEP VARMA
53	23A31A0253	PURAMSETTI NAGENDRA SANTOSH BABJI
54	23A31A0254	PUTTA SURYA MANIKANTA
55	23A31A0255	SUVARNAPUDI TEJA
56	23A31A0256	VADAPARTHI VIKAS VARDHAN
57	23A31A0257	YARLAGADDA ABHISHEK
58	23A31A0258	YELETI SRI VIGHNESH
59	23A31A0259	YELUGUBANTI HARI HARA SATYANARAYANA
60	23A31A0260	ANUSURI SATYA GANESH
61	24A35A0201	MEDAPUREDDY DEVI ISWARYA AMBIKA
62	24A35A0202	SHAIK SHAMSHAD
63	24A35A0203	VITHANALA SHALINI
64	24A35A0204	BENDUKURTHI PRAMODH
65	24A35A0205	DARAPU SAI VENKAT
66	24A35A0206	DUPALLI DHARMA TEJA
67	24A35A0207	EERLI SHANMUKHA DURGAPRASAD
68	24A35A0208	ERANKI SAI SRI KIRAN
69	24A35A0209	KADALI GNANA SAI RAM
70	24A35A0210	KOSURI SATYA SAI NARENDRA
71	24A35A0211	MALLIPUDI DORABABU
72	24A35A0212	NALLA VEERA VENKATA SAI SRINIVAS

Faculty members:
1.Mr.D.PRAKASA RAO
2.Mr.S.Nani babu
3.Ms.P.Sandhya

Coordinator

HOD-EEE