SRI SHAKTHI

INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution)

Coimbatore - 641 062

POWERING THE YOUTH
EMPOWERING THE NATION

B.E. – Mechanical Engineering

Sandwich Industrial Training Report

Student Name & Roll Number

Name	Roll Number
AZHAKESH G	714022114002
DHANUSH B	714022114008
DINESH KUMAR R	714022114010
MANOJ K	714022114310
SANJEEVI KUMAR S	714022114314
PRAKASH M	714022114023

Name & Address of the Companies

Name	Address
EXCEL ENGINEERING	**5/101-4. KALLIPALAYAM, MOLAPALAYAM ROAD VELLANAIPATTI, COIMBATORE 641048, TAMIL NADU, INDIA.**

Student Code of Conduct

1. **I will take part in the sandwich training in a manner that reflects positively on SSIET and me.**

2. **I will follow the instructions given by my company supervisor.**

3. **I will follow all company guidelines and regulations.**

4. **I will follow all health and safety requirements of the company.**

5. **I will dress appropriately for the work place and follow any codes or rules.**

6. **I will be on time for training and when returning from breaks.**

7. **I will notify the company supervisor and my class advisor, as soon as possible .**

8. **I understand that I will follow and adhere to the attendance policy of the complain .**

Acknowledgement by the Students:

Student Name	Signature
AZHAKESH G	
DHANUSH B	
DINESH KUMAR R	
MANOJ K	
SANJEEVI KUMAR S	
PRAKASH M	

Approval by the Sandwich Coordinator:

Sandwich Coordinator Name	Signature

Name of the Company:
EXCEL ENGINEERING

Training Duration:
1 WEEK   **FROM 18.03.24 TO 23.03.24**

Name of the Resource person:
MR.RAGHURAM

Contact Details &Email Address:
9894436485

About the Company:
THEY MANUFACTURE DIFFERENT TYPES OF SHAFT TO THERE DEALERS.THEY HAVE 90% DEALERSHIP WITH SHANTHI GEARS AND 10% FORM ANOTHER COMPANYS.THEY GIVE GOOD FINISHED PRODUCTS IN CORRECT DIMENSIONS.TEHY USE THE ROUTE SHEET FOR PLAN.THE ROUTE SHEET HAVE DIMENSIONS,PRODUCT COUNT,PROCSS NAME TO DO AND DRAWINGS WITH DIMENSIONS.

Tools & Equipment Used /Explored:

TOOLS :
- **DNMG**
- **CNMG**
- **CCMG**
- **DRILL**

EQUIPMENTS:
- **VERNIER CALIPER**
- **DEPTH VERNIER CALIPER**
- **SCREW GAUGE (MIC)**
- **DEPTH SCREW GAUGE (DEPTH MIC)**
- **DIGITAL HEIGHT GAUGE**
- **SLIP GAUGE**

MACHINE:
- **CNC**
- **VMC**

• **LATHE**
• **DRILLING**

Skills Learned:

- **THEY TAUGHT TO CHECK THE PRODUCT ARE IN CORRECT DIMENSION USING MEASUREING INSTRUMENTS.TO MAKE NON DEFECTS PRODUCTS.**
- **THEY TAUGHT HOW MACHINES ARE WORKING AND WITH OPERATION IS DONE IN WITH MACHINE.**
- **THEY USING STABILIZER TO CHANGE THE CURRENT AC TO DC. THE MACHINE HAVE DC MOTOR .**
- **THEY HELP TO FIND THE ERRORS AND MISTAKE IN QUALITY CONTROL SECTOR.**
- **WE LEARNED THE MANUFACTURING PROCESS AND AUTOMATION , STRENGTH OF MATERIAL.**
- **THEY TAUGHT HOW TO MAINTAIN THE MACHINE ,CLEAN THE MACHINE AFTER THE WORK COMPLETE,TO CHECK THE COOLANT AND LUBIRICATION OIL LEVEL FOR CNC AND VMC MACHINES .**
- **FOR LATHE AND DRILLING MACHINE CLEAN THE WASTE . WE CAN RECYCLE IT .**

Learning Outcome Mapping:

Note: Students are expected to look for the opportunities in the company to address at least one of the learning outcomes from each subject.

21ME401: MECHANISM AND MACHINES

- Exposure on gear and gear train used in the company.
- Exposure on cam and cam followers used in the company.
- Exposure on the use of connecting rod, crank shaft and fly wheel.
- Exposure on positive and negative effects of vibration.

21ME402: APPLIED THERMAL SCIENCE

- Exposure on open system and closed system in the workplace.
- Exposure on the activity demonstrates first law/ second law/ third law of thermodynamics.
- Exposure on high and low grade energy sources used in the company.
- Exposure on application of IC engines/ refrigeration system/ air conditioning system.

21ME403: INDUSTRICAL AUTOMATION FOR PLC

- Exposure on manual and automated measuring instruments used in the company.
- Exposure on use PLCs in the company.
- Exposure on any automated equipment used in the company.
- Recommendation for automation of any one industrial activities in the workplace.

21ME405: ENVIRONMENTAL SCIENCE

- Exposure on various types of energy consumed in the company.
- Exposure on the types of pollution that may occur in the industrial activities and the control measures adopted by the company.
- Exposure on the natural resources used in the company such as water, solar, wind etc.
- Recommendation for energy saving and pollution control from the industrial activities.

21PME02: REVERSE ENGINEERING

- Identification of a component in the company for reverse engineering with appropriate need for reengineering.
- Identification of symmetric/axisymmetric components used in the company with a free hand sketch.
- Investigate the legality issues of reverse engineering pertaining to the type of company under training.

GeoTag Photographs taken during the training session.

Suggestion & Feedback:

Is the training useful in gaining the overall technical skills &knowledge?
YES.THE TRAINIG IS USEFUL TO IMPROVE OUR SKILLS AND KNOWLEDGE ABOUT THE MACHINE AND IT IMPROVE OUR CONFIDENCE LEVEL .
Did your faculty member accompany you during any of the training session? If yes give details.
NO
What was your biggest challenge during this training?
NILL
Any other Feedback:
THE COMPANY WAS USEFULL TO KNOW THE MACHINE OPERATIONS , QUALITY CONTROL , AND USES OF PINIONS SHAFT IN MACHINES .

Signature of the Students	
Sandwich I/C	
Class Advisor	
Head of the Department	
Principal	