



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**

**Department of Mechanical Engineering**

## **Report on Technical talk “Mechanical Engineers Future Prospects Beyond Graduation “**

The seminar was organised on 22<sup>nd</sup> July 2023 in association with KSIT Alumni Association for mechanical engineering students in the seminar hall. Mr. Abhijith Kashyap, an alumni of the college delivered lecture on Mechanical engineers future prospects beyond graduation. Atalk which is necessary to get awareness among the students for their future career aspects. Few important seminar process is as follows.



**Details of Seminar Presentation**



**Guest introduction by Mr.A. Anilkumar, Assistant Professor Dept. of Mechanical Engineering**



**Welcome to the Guest by Principal of KSIT DrDilipKumar**




Presentation by the Speaker




Participants to the seminar



Honoring the Guest by Memento by HOD, Mechanical and Principal of College

  
**SIGNATURE OF HOD**  
 Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109

  
 Signature of the Principal  
**PRINCIPAL**  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.





**DEPARTMENT OF MECHANICAL ENGINEERING**  
**SKILL DEVELOPMENT PROGRAM REPORT - 2023-24**

As a part of the skill development program, 3<sup>rd</sup> semester students were given training in solid modeling, finite element analysis and Computer aided manufacturing using Autodesk Fusion 360 software in a 3 days program.

**Objectives of the program**

- ✓ To impart practical skills, hands on training, soft skills etc.
- ✓ To enhance the employability of students.

The program schedule is as follows.

**Schedule for Skill Development Program**

Date	Program Description	Time	Name of Expert with details
21/02/2024	Inauguration	9.30 to 10.30 AM	---
	Introduction to Modeling	11.00 to 1.00 PM	Mr. Maruthi G V Director, Product Design & Manufacturing, Medini Technologies, Bangalore.
	Hands on training Session (Basic sketching on Modeling)	2.00 to 4.00 PM	
22/02/2024	Hands on training Session (Conversion of 2D to 3D Sketching on solid Modeling)	9.30 to 1.00 PM	
	Hands on training Session (Assembly of machine Components)	2.00 to 4.00 PM	
23/02/2024	Hands on training Session (Finite element analysis)	9.30 to 1.00 PM	
	Hands on training Session (Computer aided manufacturing)	2.00 to 3.30 PM	
	Valedictory Function	3.30 to 4.00 PM	---

**Brief report about Skill development program**

**Day-1 (21/02/2024)**

The training was started on 21/02/2024 morning at 9.30 AM in the Mechanical Seminar Hall, Second Floor, New Building, in KSIT campus, with an inaugural function. The Principal, Dr. Dilip Kumar K, HOD, Dr. Girish T R, Chief Guest, Mr. Maruthi G V, Director, Product Design & Manufacturing, Medini Technologies, skill development program coordinator, Dr. Saleem Khan, teaching staff of the Mechanical Department, and students of III semester were present for the inaugural function. Mr. Rajesh G L, Assistant Professor, welcomes the dignitaries. The Principal, Dr. Dilip Kumar K, briefed the students on skill development program. A chief guest of the skill development program, Mr. Maruthi G V, Director, Product Design & Manufacturing, Medini Technologies, addressed the gathering on the need of solid modeling, finite element analysis and computer aided manufacturing using Fusion 360 software for Industry expectation. Inaugural function was ended with vote of thanks given by Dr. Saleem Khan, Skill Development program coordinator to dignitaries and participants.

Before starting the Day 1(Morning Session), an expert, Mr. Maruthi G V, Director, Product Design & Manufacturing, Medini Technologies delivered a lecture on importance of solid modeling, finite element analysis and computer aided manufacturing using Fusion 360 software for Industry need.

The Day-1 afternoon session was hands-on training for the students, the students practiced the basic sketching of solid modeling using Fusion 360 software.

**Day-2 (22/02/2024)**

The Day-2 morning session was again a hands-on training session for students, the students practiced how to convert 2D sketching to 3D Sketching.

The Day-2 afternoon session was continued with hands-on training session for students, the students practiced assembly drawing of machine components like screw jack and plumber block.

**Day-3 (23/02/2024)**

The Day-3 morning session was hands-on training on finite element analysis, the students were solved a stepped bar problem using Fusion 360 software and compared the result with manual method.

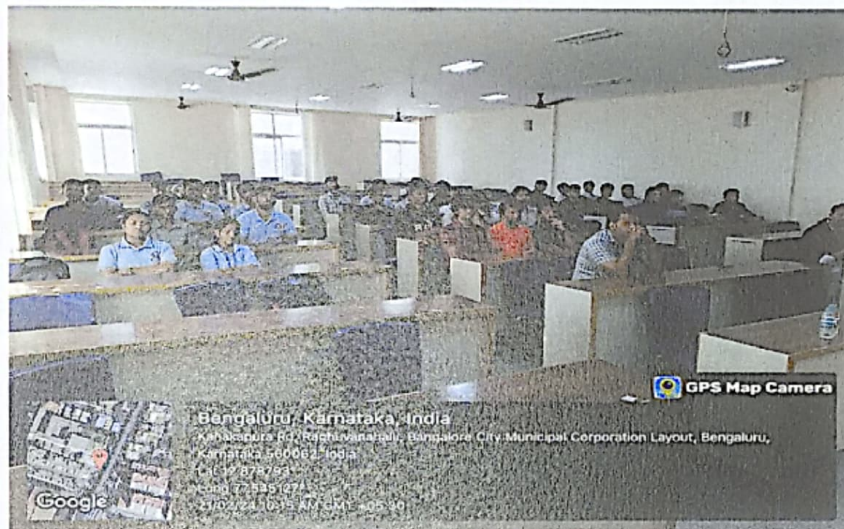


## Skill Development Program Report 2023-24

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The Day-3 afternoon session was continued with hands-on training session; the students practiced computer aided manufacturing using Fusion 360 software. In addition, students were learned how to generate program for manufactured component. All the sessions were very interesting and informative.

The Skill development program ended with valedictory function.



**Students gathered for Inaugural function**



**Hands on training session**

## Conclusion

The student's undergone training in "Introduction to Modeling and Design for Manufacturing" using Fusion 360 software. Students practiced basic sketching of solid modeling, conversion of 2D to 3D sketching, assembly drawings of machine components, finite element analysis and computer aided manufacturing.

## Program Outcomes

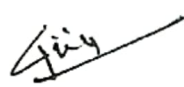
At the end of the program, the following PO's are attained


PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1
	2	3	3	2	2								3

## Justification of PO mapping

- ✓ The basic procedure to draw orthographic views, which requires basic engineering knowledge, problem analysing skills and tool usage to draw views, hence it maps with PO1.
- ✓ The procedure to create 3 dimensional parts and assembly, generate 2 dimensional views from 3 dimensional parts which requires strong problem solving & analyzing technique, Engineering Knowledge hence it maps with PO2, PO3, PO4, PO5, & PSO1

  
Program Coordinator

  
HOD  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109

  
Principal  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
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The Management, CEO, Principal & Staff  
Cordially invite you for the Inaugural Function of

**3 Day's Faculty Development Programme**

[ 21<sup>st</sup> February 2024 to 23<sup>rd</sup> February 2024 ]

**“Introduction to Modelling & Design  
For Manufacturing”**

Organized by Department of Mechanical Engineering

In Association With Medini Technologies  **Medini**

**on 21<sup>st</sup> February at 9.30 AM**  
**in Mechanical Seminar Hall, KSIT**

Chief Guest

**Sri. Maruthi G V**

Director, Product Design & Manufacturing  
Medini Technologies, Bengaluru

Will Grace the Occasion

**Dr. K. V. A. Balaji**

CEO, KSGI

**Dr. Dilip Kumar K**

Principal / Director, KSIT

**Dr. Saleem Khan**

FDP Coordinator,  
Assistant Prof., ME Department

**Dr. Girish T R**

Associate Prof. & Head,  
ME Department



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**KSIRIF**  
K S Research and Innovation Foundation

# Industry Driven Faculty Development Programme on

## “BEST PRACTICES IN INDUSTRIAL SAFETY”

### 13<sup>th</sup> – 17<sup>th</sup> May, 2024

### Industry Partners



**BOSCH**



Organized By  
Department of Mechanical Engineering

In Association with  
K S Research & Innovation Foundation

### Contact Details

Mr. Anil Kumar A

+91 - 81979 75168

Email : [anilkumara@ksit.edu.in](mailto:anilkumara@ksit.edu.in)

Mr. Rangantah N

+91 - 97433 36296

Email : [ranganathn@ksit.edu.in](mailto:ranganathn@ksit.edu.in)

Scan Here for  
Location



## Objectives of FDP :

- To empower the faculty members with a understanding of the current best safety practices in industries
- To assist faculty in integrating industrial safety practices into curriculum by identifying key topics, case studies and practical examples.
- To emphasis the importance of safety standards and sustainable practices in industrial settings

## Registration Fee :

For Faculty :

**Rs. 1000 /-**

## Bank Details :

A/C Name :

**K S INSTITUTE OF TECHNOLOGY, BENGALURU**

Bank Name : Axis Bank

A/C Number : 912010014093916

IFSC Code : UTIB0001513

Branch : JP Nagar 6<sup>th</sup> Phase, Bengaluru

## Note :

- Number of registrations is limited to 20.
- Registration is limited to only 1 faculty from each institutions.
- Faculty from Mechanical Engineering domain can register for this program.

## Registrations

Please Scan or Click on the link given below for the registrations

This FDP will be  
implemented  
at above  
Five Industries



<https://forms.gle/LBdvGNyYCmt72Aib6>

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Professor & COE, KSIT

**Dr. Girish T. R**

Associate Professor & Head Mechanical, KSIT

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Asst. Professor, Dept. of Mech, KSIT

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Asst. Professor, Dept. of Mech, KSIT

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The Management, Principal, Staff of  
Department of Mechanical Engineering, Cordially Invite you for

**Inaguration of Faculty Development on  
BEST PRACTICES IN INDUSTRIAL SAFETY**

On Monday, 13<sup>th</sup> May 2024

Chief Guest

**Dr. T V Narayanappa**

Deputy Director of Factories

**Tabrez Ahmed**

Senior Vice President & Director  
Toyota Kirloskar Auto Parts Pvt. Ltd.

Presided By

**Sri. R. Rajagopal Naidu**

President, Kammavari Sangham

Will Grace the Occasion

**Sri. R. Leela Shankar Rao**

Hon. Secretary, Kammavari Sangham

**Sri. T. Neerajakshulu Naidu**

Treasurer, Kammavari Sangham

**Dr. K.V.A. Balaji**

CEO, KSGI

**Dr. D. R. Swamy**

Executive Director - KSIRF

**Dr. Girish T R**

HOD - Mechanical

**Dr. Dilip Kumar K**

Principal & Director

**Venue : Toyota Kirloskar Auto Parts Pvt Ltd Time : 10-00 AM**



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Asst. Professor, Dept. of Mech, KSIT



**K S INSTITUTE OF TECHNOLOGY, BENGALURU**  
**DEPARTMENT OF MECHANICAL ENGINEERING**



**AGENDA FOR THE INAUGURATION OF**  
**5 DAYS FACULTY DEVELOPMENT PROGRAM ON**  
**“BEST PRACTICES IN INDUSTRIAL SAFETY”**

**On Monday 13<sup>th</sup> May 2024**

<b>SL NO</b>	<b>Particulars</b>	<b>Time</b>	<b>Duration</b>
1	Welcome address by <b>Dr Dilip Kumar K</b> Principal/Director, KSIT Bengaluru	9.30am – 9.35am	5 Minutes
2	Lightening of Lamp by the Dignitaries	9.35am – 9.38am	3 Minutes
3	Introduction about the Faculty Development Program by <b>Dr D R Swamy</b> Executive Director, KSRIF, Bengaluru	9.38am – 9.41am	3 Minutes
4	Inaugural address by <b>Dr T V Narayanappa</b> Deputy Director of Factories	9.41am – 9.47am	6 Minutes
5	Address by <b>Mr Tabrez Ahmed</b> Senior Vice President & Director Toyota Kirloskar Auto Parts Pvt Ltd	9.47am – 9.53am	6 Minutes
6	Address by <b>Dr K V A Balaji</b> Chief Executive Officer, KSIG, Bengaluru	9.53am – 9.56am	3 Minutes
7	Felicitation to Chief Guest	9.56am – 9.58am	2 Minutes
8	Vote of Thanks by <b>Prof. Anil Kumar A</b> Assistant Professor Department of Mechanical Engineering, KSIT	9.58am – 10am	2 Minutes



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## **DEPARTMENT OF MECHANICAL ENGINEERING**

### **REPORT ON**

### **BEST PRACTICES IN INDUSTRIAL SAFETY**

**Organized by:** Department of Mechanical Engineering, KS Institute of Technology,  
Bengaluru

**In Association with:** KS Research & Innovation Foundation (KSRIFF)

**Date:** 13/5/2024 - 17/5/2024

The program began with an inauguration ceremony attended by distinguished guests and dignitaries, setting a formal tone for the event.

#### **Inauguration Ceremony:**

- **Welcome Address:** Dr. Dilip Kumar K, Principal/Director, KSIT
- **Lightening of Lamp:** By the dignitaries
- **Introduction:** Dr. D R Swamy, Executive Director, KSRIFF
- **Inaugural Address:** Dr. T V Narayanappa, Deputy Director of Factories
- **Special Addresses:** Mr. Tabrez Ahmed, Senior VP & Director, Toyota Kirloskar Auto Parts Pvt Ltd, and Dr. K V A Balaji, CEO, KSGI
- **Vote of Thanks:** Prof. Anil Kumar A, Assistant Professor, KSIT

#### **Day 1: Toyota Kirloskar Auto Parts Pvt Ltd (TKAP) - (13.05.2024)**

Participants are engaged in sessions covering various topics:

- **Company Presentation:** Mr. Rajpandian San presented an overview of the company.
- **Environment Management:** Mr. Gunaranjan discussed best practices for managing the environment within industrial settings.
- **Low-Cost Automation:** Mr. Niranan introduced innovative yet cost-effective automation strategies.
- **Gemba Visit:** Participants were divided into two groups for a tour of the Training Center and A400 Line, focusing on Safety Dojo and safety practices.

The day concluded with a Q&A session and a group photo.



**K S INSTITUTE OF TECHNOLOGY, BENGALURU**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**FDP ON BEST PRACTICES IN INDUSTRIAL SAFETY FROM 13/5/2024 TO 17/5/2024**



**REPORTING AT KSIT & DEPARTURE TO TKAP IS 8.00AM**

DAY 1: Faculty Development Program (13.05.2024)					
Date	Time	Duration (Min)	Program	Location	Presenter
13th May 24	9:30 10:00	30	Inaugural Function (Meeting Room)	Orchid 3 & 4	KSIT Faculty Conenor + Mr.Mangesh
	10:00 ~10:10	10	Tea break	Cafeteria lounge	
	10:10 ~ 12:00	110	Best Practices Sharing (Meeting Room)	Orchid 3 & 4	
	10:10~10:15	5	Greetings & Participant Introduction		Mr. Mangesh
	10:15~10:35	20	Company Presentation		Mr.Rajpandian San
	10:35~11:05	30	Environment Management	Orchid 3 & 4	Mr.Gunaranjan
	11:05~11:45	40	Low Cost Automation		Mr.Niranjan
	11:45~12:00	15	Q&A		Mr. Mangesh
	12:00~12:35	35	Gemba Visit Group 1	Training Center +	Mr.Bhanuprkash
	12:00~12:03	3	Move to Training Center		Mr.Bhanuprkash
	12:03~12:15	12	Training Centre Safety Dojo + FST Explanation	Training Center	Mr.Laxman

Date	Time	Duration (Min)	Program	Location	Presenter
13th May 24	12:15~12:17	2	Move to A400		Mr.Bhanuprkash
	12:17~12:32	15	A400 Gemba Explanation ( Machining Line + Assembly Line)	A400	Mr.Kumar S
	12:32~12:35	3	Move to Orchid 3 & 4		Mr.Bhanuprkash
	12:00~012:35	35	Safety Best Practices-(Group-2)	Orchid 3 & 4	Mr. Mangesh
	12:35~01:10	35	Gemba Visit Group 2	Training Center +	Mr.Bhanuprkash
	12:35~12:38	3	Move to Training Center		Mr.Bhanuprkash
	12:38~12:50	12	Training Centre Safety Dojo + FST Explanation	Training Center	Mr.Nagaraja
	12:50~12:52	2	Move to A400		Mr.Bhanuprkash
	12:52~01:07	15	A400 Gemba Explanation ( Machining Line + Assembly Line)	A400	Mr.Kumar S
	01:07~01:10	3	Move to Orchid 3 & 4	Orchid 3 & 4	Mr.Bhanuprkash
	12:35~01:10	30	Safety Best Practices-(Group-2)	Orchid 3 & 4	Mr.Mangesh
	01:10:01:25	15	Q&A- Closing Meeting		Mr.Mangesh
	1:30~2:00	30	Lunch Break	Dining Hall 2	Mr. Mangesh
		4	Group Photo & Disperse	Admin block Entrance	Mr.Dinesh







**Fig: Felicitation to Dr T V Narayanappa, Deputy Director of Factories**





**Fig: Shop floor Visit at TKAP**



# K S INSTITUTE OF TECHNOLOGY, BENGALURU

DEPARTMENT OF MECHANICAL ENGINEERING

**5 DAYS FACULTY DEVELOPMENT PROGRAM**

ON

**“BEST PRACTICES IN INDUSTRIAL SAFETY”**

(13/5/2024 - 17/5/2024)

**In Association with K S Research & Innovation Foundation (KSRIIF)**



Schedule --- > DAY 2: Faculty Development Program @ Prabha Industry (14.05.2024)		
Date	Time	Program
14th May 24	10.30AM - 11.00AM	Coffee/Tea, Intro and company presentation
	11:00 AM – 12:00 PM	Presentation on topics of metal stamping process, stamping dies, Press & Safety aspects
	12:00 PM – 1:00 PM	Plant & Training area walk thru and review.
	1:15 PM – 2:00 PM	Lunch
	2:00 PM – 2:30 PM	Q&A, Discussion
	2:30 PM – 2:45 PM	Tea and Wrap-up.

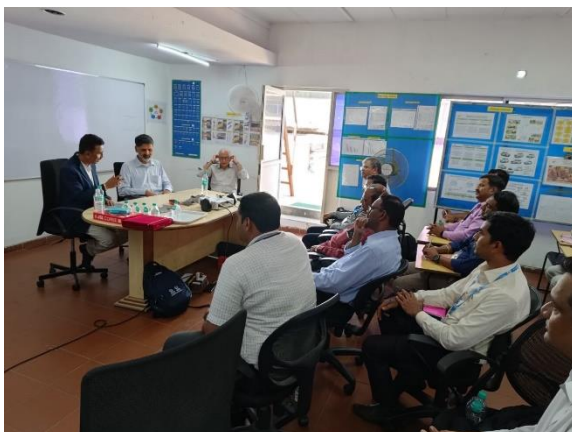


## Day 2: Prabha Industry (14.05.2024)

The second day of the FDP took place at Prabha Industry, where participants explored various aspects of industrial safety:

- **Company Presentation and Introduction:** An initial overview of Prabha Industry by Mr Vinod Kubher and Mr Satish.
- **Metal Stamping and Safety Aspects:** Presentations covered metal stamping processes, stamping dies, presses, and associated safety protocols by Mr Shanawaz.
- **Plant Walkthrough:** A guided tour of the plant and training area, providing practical insights into safety measures.
- **Discussion and Q&A:** An interactive session to discuss learnings and clarify doubts.

The visit concluded with a wrap-up session and tea.







**Fig: Shop Floor Visit at Prabha Industries**





**Fig: Presentation of Memento during Faculty Development Program**





**Fig: Group Photo at Prabha Industries**



# K S INSTITUTE OF TECHNOLOGY, BENGALURU

DEPARTMENT OF MECHANICAL ENGINEERING

5 DAYS FACULTY DEVELOPMENT PROGRAM

ON



“BEST PRACTICES IN INDUSTRIAL SAFETY”

(13/5/2024 - 17/5/2024)

In association with K S Research & Innovation Foundation (KSRIIF)

## Schedule -----> DAY 3: Faculty Development Program @ Toyota Kirloskar Motors (TKM) - (15.05.2024)

Date	Time/Session	Program	Remarks	Who?
15 <sup>th</sup> May 24	8.00AM - 8.30AM Session 0	<ul style="list-style-type: none"> <li>Arrival to Toyota Kirloskar Motors (TKM)</li> </ul>	<ul style="list-style-type: none"> <li>Breakfast</li> <li>Sleeves Shirt</li> </ul>	<ul style="list-style-type: none"> <li>Nagesh</li> </ul>
	8.30AM - 10.00AM Session 1	<ul style="list-style-type: none"> <li>Developing Youth - Toyota Model</li> <li>Morning Assembly, Assembly Shop &amp; Kendama</li> <li>Safety Protocols at Training</li> </ul>	<ul style="list-style-type: none"> <li>Wear Safety Gears &amp; Panaguide</li> <li>Break into 2 groups</li> </ul>	<ul style="list-style-type: none"> <li>Bhaskar pai</li> <li>Nagesh</li> </ul>
	10.15AM - 11.45AM Session 2	<ul style="list-style-type: none"> <li>Manufacturing a car: Weld, Paint &amp; Assembly</li> <li>Safety best practices at shop floor</li> </ul>	<ul style="list-style-type: none"> <li>Plant 1 Tour (Mezannine Floor)</li> <li>Safety best Practices</li> </ul>	<ul style="list-style-type: none"> <li>Nagesh</li> <li>Ambarish</li> </ul>
	12.00PM - 1.00PM Session 3	<ul style="list-style-type: none"> <li>Industry Safety best practices through safety doujo experience at Gurukul</li> </ul>	<ul style="list-style-type: none"> <li>Gurukul Visit</li> <li>Safety Doujo Explanation</li> </ul>	<ul style="list-style-type: none"> <li>Nagesh</li> <li>Shivu</li> </ul>
	1.00PM - 1.30PM Session 4	<ul style="list-style-type: none"> <li>Lunch</li> </ul>	<ul style="list-style-type: none"> <li>Canteen</li> </ul>	<ul style="list-style-type: none"> <li>Nagesh</li> </ul>
	1.30PM - 3.30PM Session 5	<ul style="list-style-type: none"> <li>Toyota Production System</li> </ul>	<ul style="list-style-type: none"> <li>TPS Simulation</li> </ul>	<ul style="list-style-type: none"> <li>Nagesh</li> <li>Ambarish</li> </ul>
	3.45PM - 4.30PM Session 6	<ul style="list-style-type: none"> <li>Industrial Safety best practices</li> </ul>	<ul style="list-style-type: none"> <li>Workshop Safety</li> <li>Contractor Safety</li> </ul>	<ul style="list-style-type: none"> <li>Bheemesh</li> </ul>
	4.30PM - 5.00PM Session 7	<ul style="list-style-type: none"> <li>Closing</li> </ul>	<ul style="list-style-type: none"> <li>Q &amp; A</li> </ul>	<ul style="list-style-type: none"> <li>Dr T V Narayanappa</li> <li>Jagadish</li> </ul>



### Day 3: Toyota Kirloskar Motors (15.05.2024)

Participants visited Toyota Kirloskar Motors, where they experienced Toyota's renowned safety practices:

- **Morning Assembly and Safety Protocols:** A comprehensive introduction to Toyota's safety protocols and practices.
- **Plant Tour:** A detailed tour of the manufacturing processes, focusing on safety best practices in the weld, paint, and assembly shops.
- **Safety Dojo Experience:** An immersive session in Toyota's safety dojo, highlighting industry safety best practices.
- **Toyota Production System (TPS):** A simulation session to understand the TPS and its emphasis on safety.
- **Closing Session:** The day ended with a Q&A session and a wrap-up by senior Toyota officials.



**Fig: Morning Drill at Toyota Kirloskar Motors, Bidadi**





**Fig: Shop floor Visit at Toyota Kirloskar Motors**





**Fig: Safety Demonstration by trained staff @ TKM**





**Fig: Question and Answer session**





**Fig: Presentation of Memento during Faculty Development Program**



**Fig: Group Photo at Toyota Kirloskar Motors**





# K S INSTITUTE OF TECHNOLOGY, BENGALURU

DEPARTMENT OF MECHANICAL ENGINEERING

5 DAYS FACULTY DEVELOPMENT PROGRAM

ON

“BEST PRACTICES IN INDUSTRIAL SAFETY”

(13/5/2024 - 17/5/2024)

In Association with K S Research & Innovation Foundation (KSRIFF)



Schedule --- > DAY 4: Faculty Development Program @ Sansera Engineering (16.05.2024)		
Date	Time	Program
16 <sup>th</sup> May 24	10.30AM	Assembly at Sansera
	10.15AM - 11.15AM	Introduction to Sansera, A brief presentation on the history and operations of Sansera, Overview of the manufacturing processes
	11.15AM - 12.15PM	Focus on Safety, Discussion on best practices in safety, Review of safety activities and protocols
	12.30PM - 1.30PM	Break for lunch
	1:30 PM - 2.30PM	Plant Tour, Guided visit through the plant to demonstrate safety best practices in a live environment.
	2.30PM - 2.45PM	Summary of key learnings from the day, Final questions and conclusion
	3.00PM	End of Visit

## Day 4: Sansera Engineering (16.05.2024)

The fourth day was held at Sansera Engineering, offering insights into safety practices in the engineering sector:

- **Introduction to Sansera:** A presentation on Sansera's history and manufacturing processes.
- **Safety Best Practices:** Discussions on safety protocols and activities at Sansera.
- **Plant Tour:** A guided tour highlighting live demonstrations of safety practices.
- **Summary Session:** Concluding discussions on key learnings and a final Q&A session.



**Fig: Shop Floor Visit at Sansera Engineering Ltd, Bidadi**





**Fig: Shop Floor Visit at Sansera Engineering Ltd, Bidadi**





**Fig: Presentation of Memento during Faculty Development Program**



**Group Photo at Sansera Engineering Ltd**



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**BOSCH**

Schedule --- > DAY 5: Faculty Development Program @ Bosch Limited (17.05.2024)		
Date	Time	Program
17th May 24	9.45AM	Assemble at Bosch Reception Area
	9.55AM	Assemble at B101 Board room
	10.00AM	Visitor Safety Briefing / Card Distribution
	10.05AM	Introduction & Context Setting
	10.30AM	Bosch Limited, Plant Presentation
	10.45AM	Work Safety, an enabler for operational Excellence & Overview of Process
	11.15AM	Topic 1: Machine & Equipment Safety
	12.30PM	Business Lunch
	1.00PM	Topic 2: Fire & Emergency Preparedness
	2.00PM	Topic 3: Chemical Safety
	3.00PM	Assemble Back to Board Room
	3.15PM	Feedback Session
	3.45PM	High Tea
	4.00PM	Departure



## Day 5: Bosch Limited (17.05.2024)

The final day took place at Bosch Limited, wrapping up the FDP with comprehensive safety sessions:

- **Visitor Safety Briefing:** An initial safety briefing for all participants.
- **Plant Presentation and Work Safety:** Detailed presentations on Bosch's safety protocols and their role in operational excellence.
- **Focused Safety Topics:** Sessions on machine and equipment safety, fire and emergency preparedness, and chemical safety.
- **Feedback Session:** Gathering feedback from participants to improve future FDPs.
- **Conclusion and Departure:** The program concluded with high tea and a formal departure.



**Fig : Interaction with Mr Joshi, Bosch (Bidadi plant)**





**Fig : Safety Demonstration by trainers**





**Fig: Presentation of Memento during Faculty Development Program**

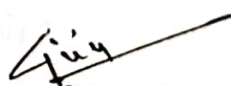


**Fig: Certificate Distribution to Participants**



**Fig: Group Photo at Bosch, Bidadi plant**

 Ranganath H. S.  
Signature of the Coordinator

  
Signature of the HOD  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109

  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.





ಬಿಡದಿ ಸಮೀಪದಲ್ಲಿರುವ ಟೋಯೊಟಾ ಕಿಲೋಸ್ಕರ್ ಆಟೋ ಪಾರ್ಕ್ ಸಲ್ಲಿ ಆಯೋಜಿಸಲಾಗಿದ್ದ 5 ದಿನಗಳ ಕಾರ್ಖಾನೆ ಚಾಲಿತ ಆಧ್ಯಾಪಕರ ಅಭಿವೃದ್ಧಿ ಕಾರ್ಯಾಗಾರವನ್ನು ಕಾರ್ಖಾನೆಗಳ ಇಲಾಖೆಯ ಉಪ ನಿರ್ದೇಶಕಿ ಡಾ.ಟಿ.ವಿ. ಸಾರಾಯಣಪ್ಪ ಉದ್ಘಾಟಿಸಿದರು.

The five-day Factory-Driven Faculty Development Program workshop, organized at Toyota Kirloskar Auto Parts near Bidadi, was inaugurated by TV Narayanappa, Deputy Director of the Factories Department on Wednesday. K. V. A. Balaji of K.S.G.I., D.R. Swami, Dilip Kumar, Principal of KS Institute of Technology, and Tabriz Ahmed, Head of Toyota Kirloskar Auto Parts, along with others, were present.





ಯಶವಂತಪುರ : ಟೋಯೋಟಾ ಕಿಲೋಸ್ಕರ್ ಆಟೋ ಪಾರ್ಕ್‌ನಲ್ಲಿ  
ಆಯೋಜಿಸಲಾಗಿದ್ದ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ಕಾರ್ಖಾನೆಗಳ ಇಲಾಖೆಯ  
ಉಪನಿರ್ದೇಶಕ ಡಾ.ಟಿ.ವಿ.ನಾರಾಯಣಪ್ಪ, ಕೆ.ಎಸ್.ಜಿ.ಐ.ನ  
ಡಾ.ಕೆ.ವಿ.ಎ.ಬಾಲಾಜಿ, ಡಾ. ಡಿ.ಆರ್.ಸ್ವಾಮಿ, ಡಾ. ದಿಲೀಪ್ ಕುಮಾರ್,  
ಪ್ರಾಂಶುಪಾಲರು, ಕೆ.ಎಸ್ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ ಮತ್ತು ಟೋಯೋಟಾ  
ಕಿಲೋಸ್ಕರ್ ಆಟೋ ಪಾರ್ಕ್ ಮುಖ್ಯಸ್ಥರಾದ ತಬ್ರಜ್ ಅಹ್ಮದ್‌ರವರ  
ಉಪಸ್ಥಿತಿಯಲ್ಲಿ ಐದು ದಿನಗಳ ಕಾರ್ಖಾನೆ ಚಾಲಿತ ಅಧ್ಯಾಪಕರ ಅಭಿವೃದ್ಧಿ  
ಕಾರ್ಯಕ್ರಮವನ್ನು ಉದ್ಘಾಟಿಸಲಾಯಿತು.



**KSIT**  
K S INSTITUTE OF TECHNOLOGY

**KAMMAVARI SANGHAM (R) - 1952**

**K. S. INSTITUTE OF TECHNOLOGY**

( Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NBA & NAAC )

**#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109**

**Tel: 080-28435722 / 24**

**Web : www.ksit.edu.in**

DEPARTMENT OF MECHANICAL ENGINEERING  
**5 DAYS FDP ON BEST PRACTICES IN INDUSTRIAL SAFETY**

(13/5/2024 TO 17/5/2024)

IN ASSOCIATION WITH

**K S RESEARCH AND INNOVATION FOUNDATION (KSRIFF)**

**FEEDBACK REPORT**

**Day 1: Toyota Kirloskar Auto Parts Pvt Ltd (13/5/2024)**

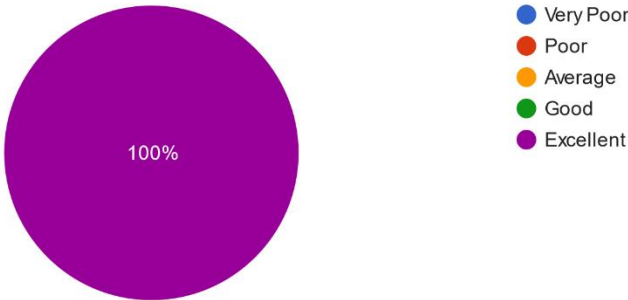
Name	Company /Organization	How would you rate the overall organization of the TKAP visit?	Was the visit informative and relevant to your field of expertise ?	How well did the visit meet your expectations?	How would you rate the quality of the presentations or demonstrations provided by the TKAP staff?	How effective was the Q&A session in addressing your queries?	To what extent did the visit enhance your understanding of automotive manufacturing processes?	How would you rate the logistical arrangements (e.g., transportation, scheduling)?	What was the most valuable part of the visit for you?	What improvements would you suggest for future FDP's?
Dr Kiran Kumar N	VIT	Excellent	Strongly Agree	Exceeded Expectations	Excellent	Very Effective	Extremely	Excellent	Simple mechanism converted into working model	Keep doing such informative things
Gurumurthy M	JIT	Excellent	Strongly Agree	Exceeded Expectations	Excellent	Very Effective	Extremely	Excellent	Everything	It's well organised
Vijaya kumar m n	RVCE	Excellent	Strongly Agree	Exceeded Expectations	Excellent	Very Effective	Extremely	Excellent	Live demo	



Dr.Srinivasa Chari V	AIT	Excellent	Strongly Agree	Met Expectations	Excellent	Effective	Significantly	Excellent	Insights and Live Demo	
Dr Nagarajan G	RRCE	Excellent	Strongly Agree	Far Exceeded Expectations	Excellent	Very Effective	Extremely	Excellent	We have learnt the Live exposures of Industry environment & safety at workplace Culture & work diversity which it will help our students to enhance the skills, Knowledge, behaviour & attitude	Nwe people Management, Human Capital Management, Employee Relationship Management using Artificial intelligence solutions with deep learning application & approach
Dr. Ramesh N	AIT	Excellent	Agree	Exceeded Expectations	Excellent	Very Effective	Extremely	Good	Production line process	Well organized. Thank you all
SB Kalatage	Srushti College	Excellent	Strongly Agree	Exceeded Expectations	Excellent	Very Effective	Significantly	Good	Interaction with tkap subject experts	You may think of including industry officials also
Dr.Vishwanath K C	RRCE	Excellent	Strongly Agree	Far Exceeded Expectations	Excellent	Very Effective	Extremely	Excellent	Industry exposure	connect more industry to conduct this type of FDP
AKASH DEEP B N	KSSEM	Excellent	Agree	Met Expectations	Excellent	Effective	Significantly	Good	Presentation	More field visit
Mahesha C K	CIT Mandya	Excellent	Agree	Far Exceeded Expectations	Excellent	Very Effective	Extremely	Excellent	Practical exposure to manufacturing plant	Nil
Naveen S S	BGSIT	Excellent	Strongly Agree	Far Exceeded Expectations	Excellent	Effective	Extremely	Excellent	Floor visit	

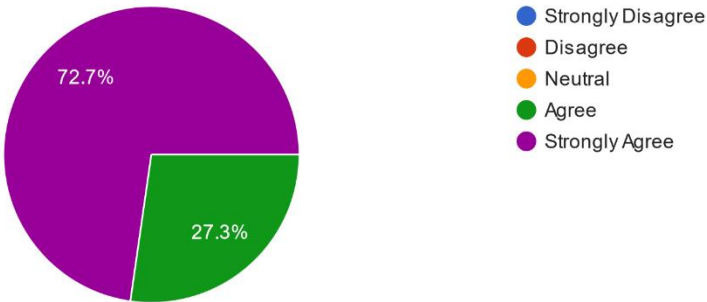
How would you rate the overall organization of the TKAP visit?

11 responses



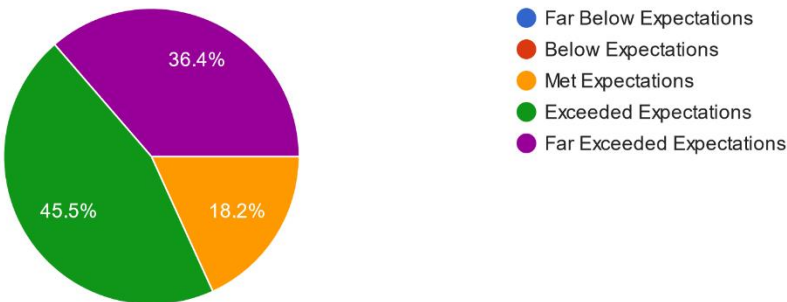
Was the visit informative and relevant to your field of expertise?

11 responses



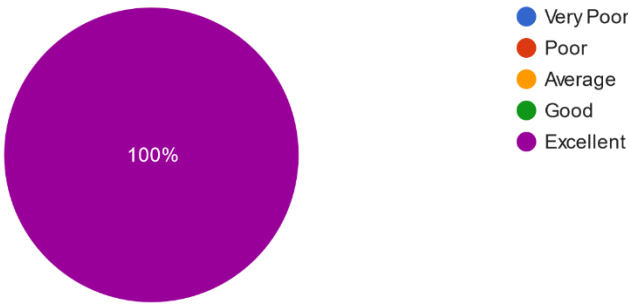
How well did the visit meet your expectations?

11 responses

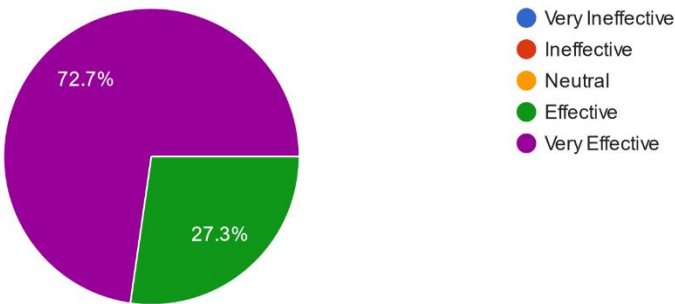




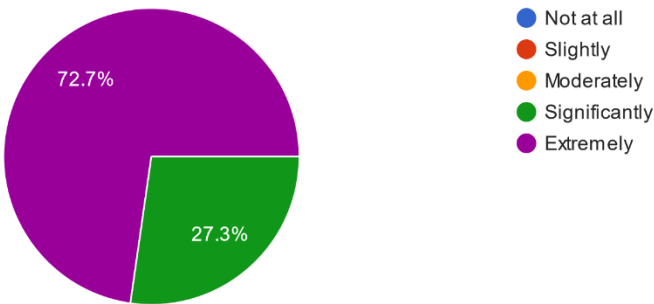
How would you rate the quality of the presentations or demonstrations provided by the TKAP staff?  
11 responses



How effective was the Q&A session in addressing your queries?  
11 responses

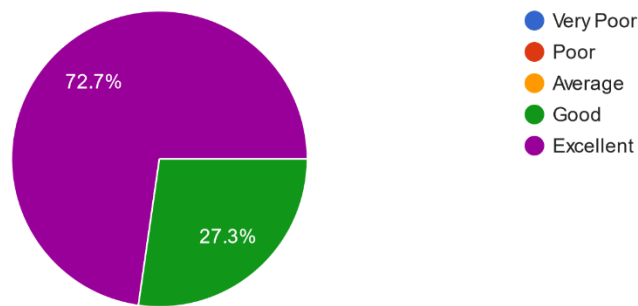


To what extent did the visit enhance your understanding of automotive manufacturing processes?  
11 responses



How would you rate the logistical arrangements (e.g., transportation, scheduling)?

11 responses



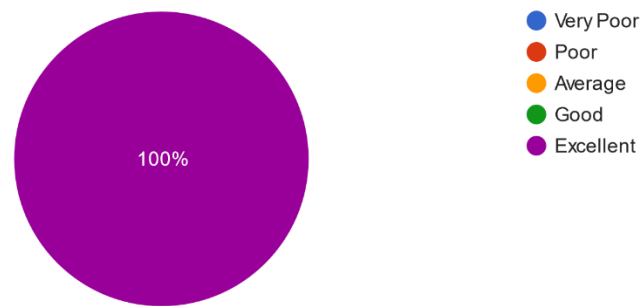


**Day 2: Prabha Industries (14/5/2024)**

<b>Name of the Participant</b>	<b>Company/organization</b>	<b>How would you rate the overall organization of the visit to Prabha Industries?</b>	<b>Was the information provided during the visit relevant to your professional interests and academic goals?</b>	<b>How informative did you find the demonstration on Die Design and Stamping Simulation?</b>	<b>How interactive was the session? Were you able to engage and ask questions effectively?</b>	<b>How would you rate the logistical arrangements such as transportation, timing, and the schedule of the visit?</b>	<b>Was sufficient time allotted for each part of the tour?</b>	<b>What was the highlight of the visit for you?</b>	<b>Please provide any suggestions on how we can improve future industrial visits.</b>
Gurumurthy M	JIT	Excellent	Extremely Relevant	Extremely Informative	Extremely Interactive	Excellent	Just about right	Each and everything	It's fine
Dr. Younus Pasha	HKBK	Excellent	Extremely Relevant	Very Informative	Very Interactive	Excellent	Just about right	Great Hospitality and systematic execution of program	By covering other technological trends , such as AC, product industries etc
Mahesha C K	CIT, Mandya	Excellent	Very Relevant	Extremely Informative	Very Interactive	Excellent	Just about right	Scheduling of Short visit and Long visit to working areas of the Prabha industry.	
Dr. Ramesh N	Atria IT	Excellent	Very Relevant	Extremely Informative	Extremely Interactive	Excellent	Just about right	DievDesign & Stamping	Excellent. Thank you all

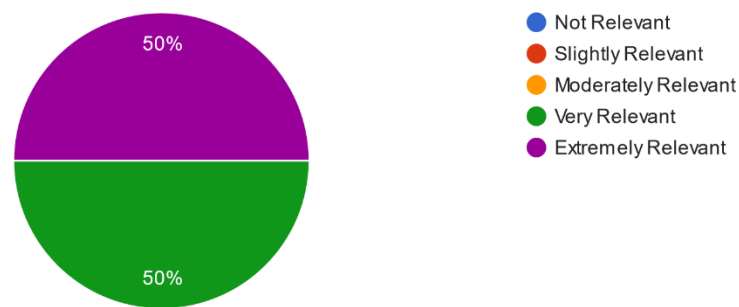
How would you rate the overall organization of the visit to Prabha Industries?

4 responses



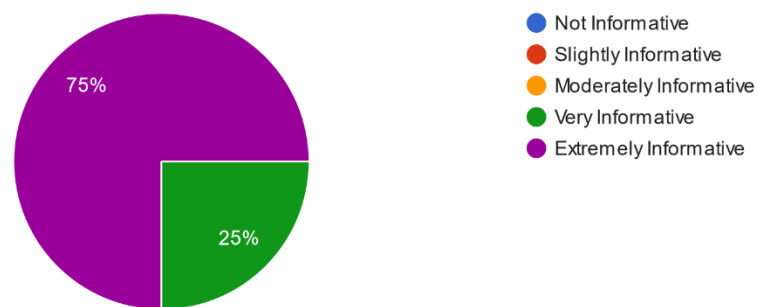
Was the information provided during the visit relevant to your professional interests and academic goals?

4 responses



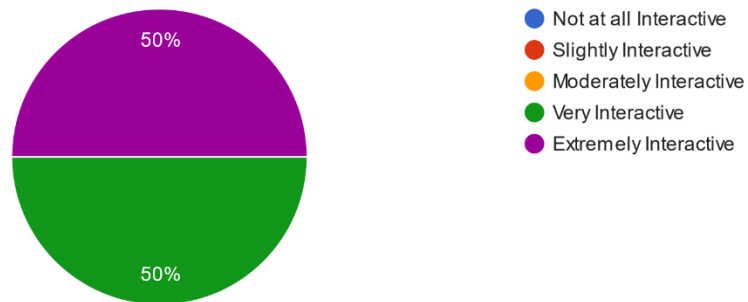
How informative did you find the demonstration on Die Design and Stamping Simulation?

4 responses



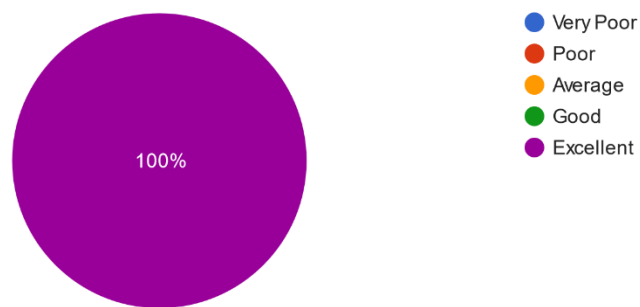
How interactive was the session? Were you able to engage and ask questions effectively?

4 responses



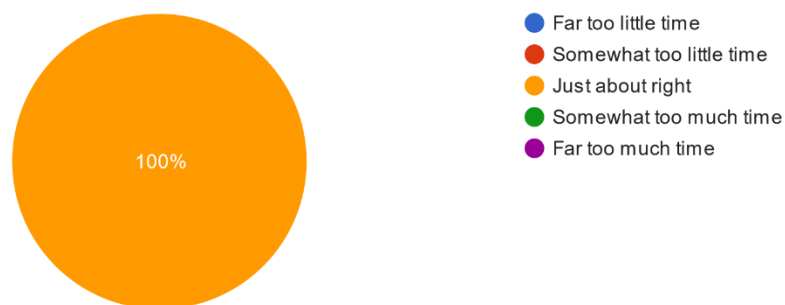
How would you rate the logistical arrangements such as transportation, timing, and the schedule of the visit?

4 responses



Was sufficient time allotted for each part of the tour?

4 responses





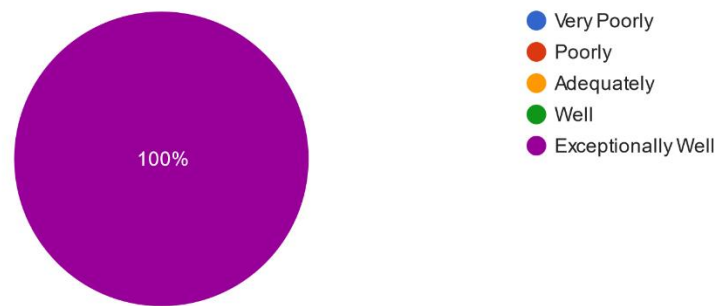
**Day 3: Toyota Kirloskar Motors (15/5/2024)**

Name of the Participant	Company/Organization	How efficiently was the visit to Toyota Kirloskar Motors organized?	To what extent did the visit align with Toyota's philosophy of continuous improvement (Kaizen)?	How effective were the presentations in enhancing your understanding of Toyota's quality and service standards?	Did the visit provide insight into Toyota's approach towards international standards and local sensitivities?	How well was Toyota's commitment to sustainability and hybrid technology demonstrated during the visit?	Evaluate the effectiveness of the discussions on community development and environmental initiatives.	How did the visit reflect Toyota's priority of putting customers first?	Rate the opportunities provided for interactive engagement and networking during the visit.	How would you rate the logistical arrangements for the visit (e.g., transportation, schedule)?	What aspect of the visit impressed you the most and why?	What improvements or additional topics would you suggest for future visits?
Dr.Srinivasa Chari V	Atria IT	Exceptionally Well	Completely	Extremely Effective	Completely	Exceptionally Well	Very Effective	Completely Reflected	Excellent	Good	Planning and execution of the day program	Nil
Dr. Kiran Kumar N	Vemana IT	Exceptionally Well	Completely	Extremely Effective	Completely	Exceptionally Well	Somewhat Effective	Very Much Reflected	Excellent	Excellent	Japanese culture	Many FDP as such
Mahesha C K	CIT, Mandya	Exceptionally Well	Completely	Extremely Effective	Completely	Exceptionally Well	Very Effective	Completely Reflected	Excellent	Excellent	TTTI, Gurukul,shop floor ,Skill development centre because of the process of assembly of car parts to yield the final product and practice and implementation of safety culture in all blocks or modules of TKM.	The bunch of innovative ideas for establishing an efficient interface between the industry and colleges/University in context of preparing the young students to the industries/companies.
Vijaya kumar m n	RVCE	Exceptionally Well	Completely	Extremely Effective	Completely	Exceptionally Well	Very Effective	Completely Reflected	Excellent	Excellent	Safety	No

Dr Nagarajan G	RRCE	Exceptionally Well	Completely	Extremely Effective	Completely	Exceptionally Well	Very Effective	Completely Reflected	Excellent	Excellent	magnificent	New People Management & employee satisfaction using Artificial intelligence Balance Score card
S.B. Kalatage	Srushti Degree college	Exceptionally Well	Very Much	Extremely Effective	Completely	Well	Very Effective	Completely Reflected	Excellent	Excellent	TTTI Initiatives from world class training to WC manufacturing , I am sure it is contributing to highest level of customer satisfaction....	Engagement with the Colleges professors must be atleast once in six months for mutual knowledge sharing ....
AKASH DEEP B N	KSSEM	Exceptionally Well	Completely	Extremely Effective	Very Much	Well	Very Effective	Very Much Reflected	Excellent	Excellent	Effective interactions	About utilizing the process of a product
Gurumurthy M	JIT	Exceptionally Well	Completely	Extremely Effective	Completely	Exceptionally Well	Very Effective	Completely Reflected	Excellent	Excellent	Quality must, safety first	All are fine
MOHAN KUMAR G	BIT	Exceptionally Well	Very Much	Extremely Effective	Completely	Exceptionally Well	Very Effective	Completely Reflected	Excellent	Excellent	Safety precautions are very good and production system is also good	Everything is good and no need of suggestions I guess
Dr. Ramesh N	Atria IT	Exceptionally Well	Completely	Extremely Effective	Completely	Exceptionally Well	Very Effective	Completely Reflected	Excellent	Excellent	Production process in the plant	Automation & Robotics
Dr. Younus Pasha	HKBK	Exceptionally Well	Completely	Extremely Effective	Completely	Exceptionally Well	Very Effective	Completely Reflected	Excellent	Excellent	Company's standards and culture of TPS	-

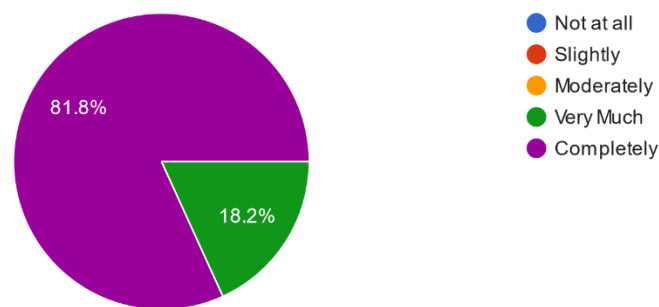
How efficiently was the visit to Toyota Kirloskar Motors organized?

11 responses



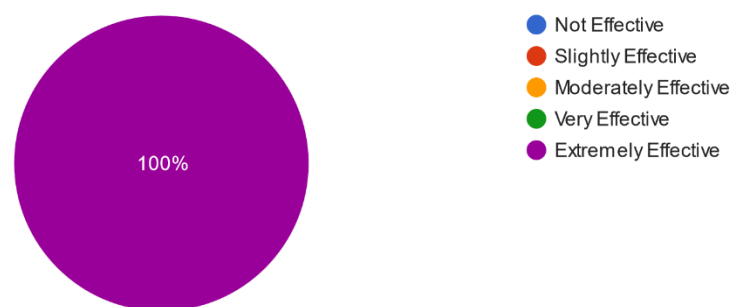
To what extent did the visit align with Toyota's philosophy of continuous improvement (Kaizen)?

11 responses



How effective were the presentations in enhancing your understanding of Toyota's quality and service standards?

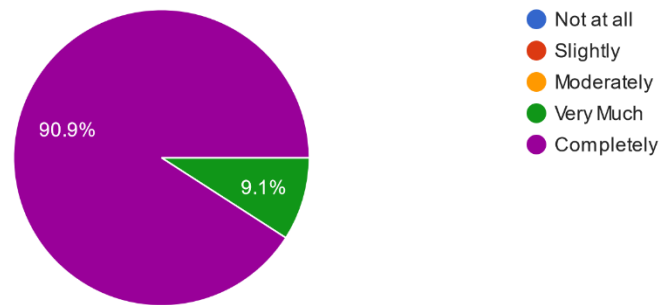
11 responses





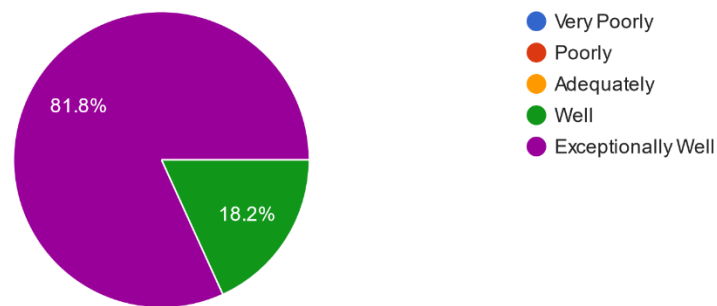
Did the visit provide insight into Toyota's approach towards international standards and local sensitivities?

11 responses



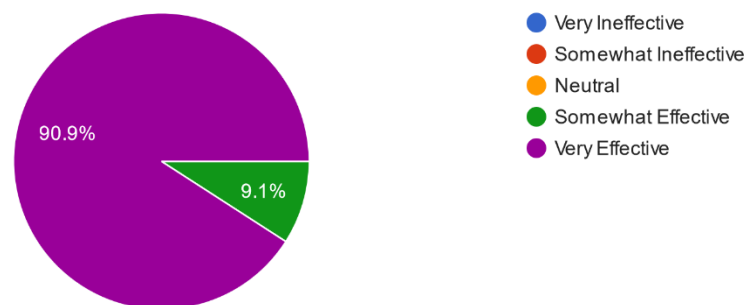
How well was Toyota's commitment to sustainability and hybrid technology demonstrated during the visit?

11 responses



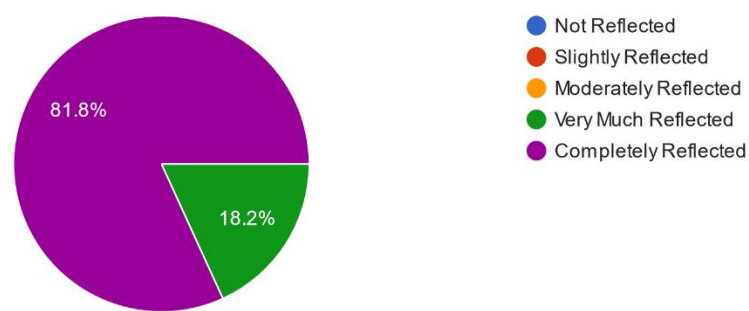
Evaluate the effectiveness of the discussions on community development and environmental initiatives.

11 responses



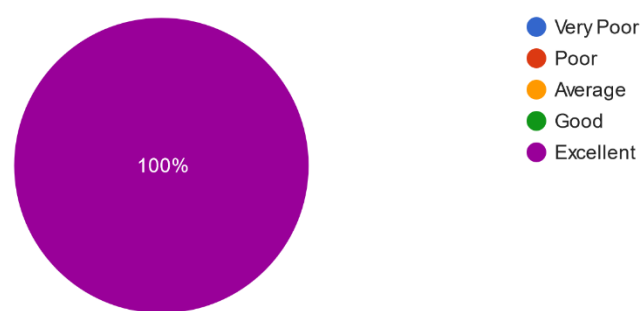
How did the visit reflect Toyota's priority of putting customers first?

11 responses



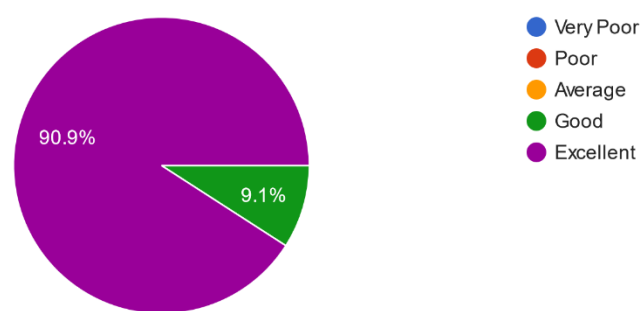
Rate the opportunities provided for interactive engagement and networking during the visit.

11 responses



How would you rate the logistical arrangements for the visit (e.g., transportation, schedule)?

11 responses



**Day 4: Sansera Engineering Pvt Ltd (16/5/2024)**

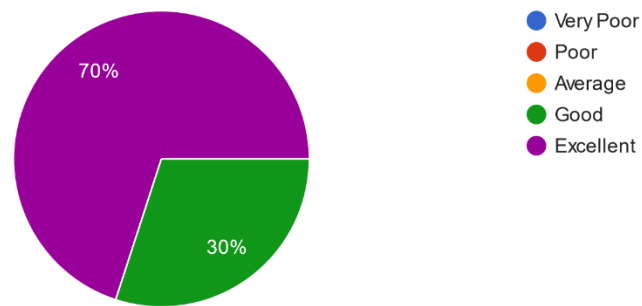
<b>Name of the Participant</b>	<b>Company/Organization</b>	<b>How would you rate the overall organization and planning of the visit to Sansera Engineering?</b>	<b>Did the visit meet your expectations in terms of educational value and relevance to your academic interests?</b>	<b>How effectively were Sansera's core values and business model communicated during the visit?</b>	<b>Evaluate the depth of information provided about their engineering and design capabilities.</b>	<b>How well did the visit showcase Sansera's manufacturing processes and precision engineering components?</b>	<b>Rate the opportunity for interactive engagement with Sansera's professionals during the visit.</b>	<b>To what extent did the visit enhance your understanding of the non-automotive sector's engineering needs?</b>	<b>How would you rate the logistical arrangements (transportation, scheduling, safety measures)?</b>	<b>What was the most insightful part of the visit?</b>	<b>What improvements or additional areas of focus would you suggest for future visits?</b>
Dr Kiran Kumar N	Vemana IT	Excellent	Fully	Very Effectively	Very Detailed	Exceptionally Well	Excellent	Extremely	Excellent	Getting into the detailed explanation in a simple manner	Keep doing such visits
MAHESHA C K	CIT, Mandya	Excellent	Fully	Very Effectively	Very Detailed	Exceptionally Well	Excellent	Extremely	Excellent	Operational methodologies of Robots,human resources and hospitality of the training and organizing committee of today's visit.	1. Company contributions in the benefit of engineering and diploma students of various universities about their industrial visit or exposure and internships etc .... 2. Programmes for creating awareness for the pre engineering students.



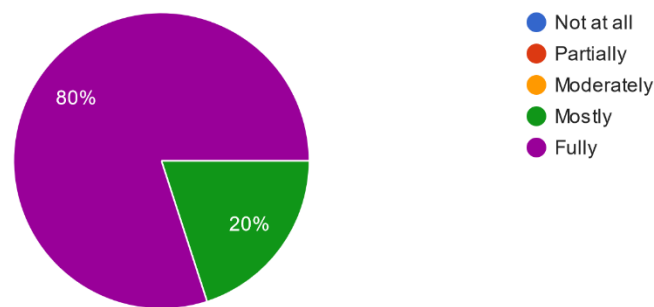
Mohan Kumar G	BIT	Excellent	Fully	Very Effectively	Very Detailed	Exceptionally Well	Excellent	Extremely	Excellent	automation and forging	Every thing is good and I think no need of suggestions
Dr. Ramesh N	Atria IT	Excellent	Fully	Very Effectively	Very Detailed	Exceptionally Well	Excellent	Extremely	Excellent	Forging, Machine fine tuning & joint Rods production	Well planned. Similar trip for ECE faculty also if it would arranged, very much useful for ECE faculty in coming days. Thank you all.
S.B.Kalatage	Srushti College	Excellent	Mostly	Effectively	Adequate	Very Well	Good	Significantly	Good	Entire Sansera team was so helpful and cooperative in sharing all the support and information whether it was planned or unplanned. Specially Shop floors All the supervisors and Quality Manager Dileep Kumar explained the each n every aspect what was happening in shop floor, Safety and	Such engagements with non technical faculty also may be planned for future visits.

										Compliance Engineer Sunil Bhovi their he too was very helpful and ready with full assisted with full enthusiasm.	
Dr. Younus Pasha	HKBK	Excellent	Fully	Very Effectively	Very Detailed	Exceptionally Well	Excellent	Extremely	Excellent	Well established setup in every line of industry	-
AKASH DEEP B N	KSSEM	Good	Mostly	Effectively	Detailed	Very Well	Good	Significantly	Good	Plant visit	More plant visit
Dr.Srinivasa Chari V	Atria IT	Good	Fully	Effectively	Detailed	Very Well	Good	Significantly	Good		
Dr Nagarajan G	RRCE	Good	Fully	Very Effectively	Very Detailed	Exceptionally Well	Excellent	Extremely	Excellent	Forging	Good
Naveen S S	BGSIT	Excellent	Fully	Very Effectively	Very Detailed	Exceptionally Well	Excellent	Extremely	Excellent	Interaction with Employee	

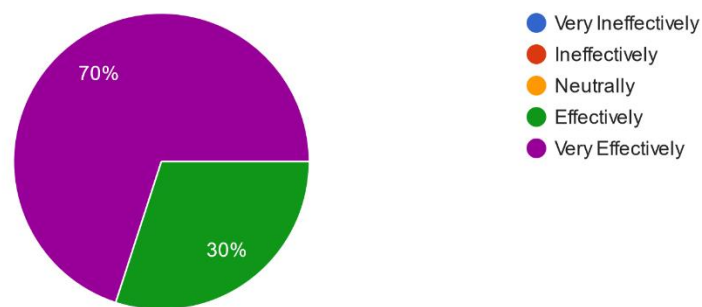
How would you rate the overall organization and planning of the visit to Sansera Engineering?  
10 responses



Did the visit meet your expectations in terms of educational value and relevance to your academic interests?  
10 responses



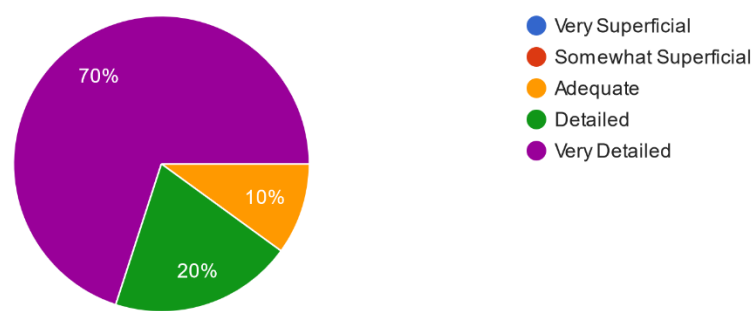
How effectively were Sansera’s core values and business model communicated during the visit?  
10 responses





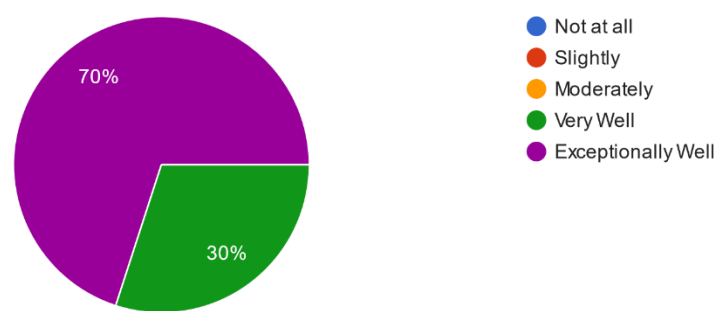
Evaluate the depth of information provided about their engineering and design capabilities.

10 responses



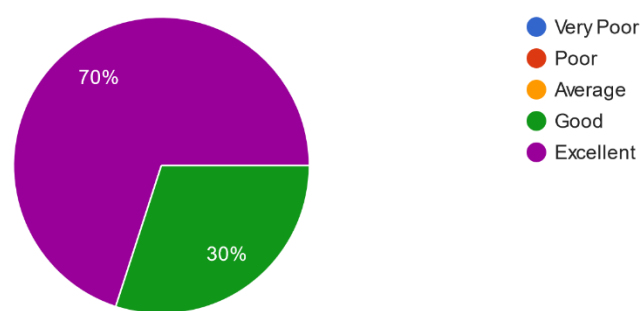
How well did the visit showcase Sansera's manufacturing processes and precision engineering components?

10 responses



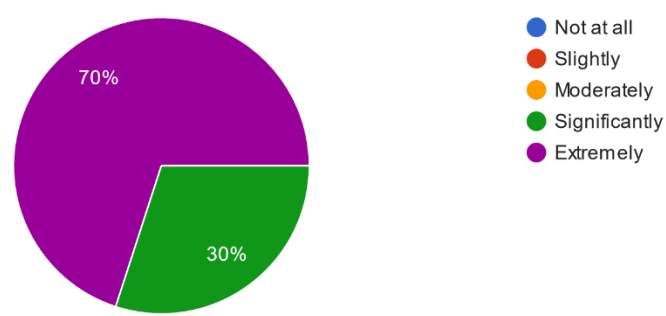
Rate the opportunity for interactive engagement with Sansera's professionals during the visit.

10 responses



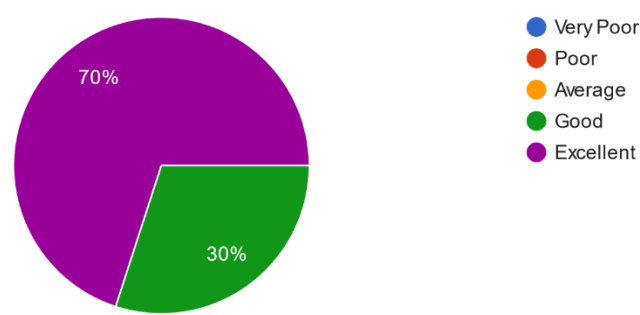
To what extent did the visit enhance your understanding of the non-automotive sector’s engineering needs?

10 responses



How would you rate the logistical arrangements (transportation, scheduling, safety measures)?

10 responses



**Day 5: Bosch Engineering (17/5/2024)**

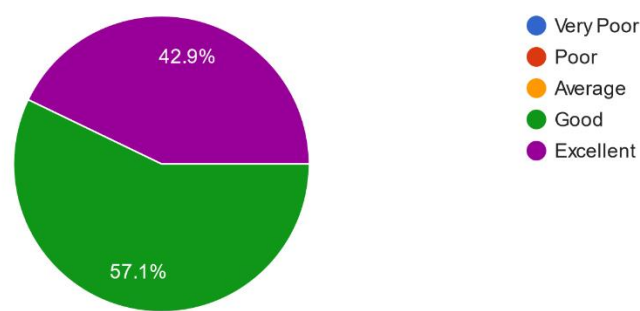
Name of the Participant	Company/Organization	How would you rate the overall organization of the visit to Bosch Ltd?	How effective was the initial safety briefing provided at the beginning of the visit?	Were the safety measures and protocols at the plant clearly communicated and followed?	Was appropriate PPE provided and were you instructed on its correct use?	How well-prepared did you feel the plant was for handling emergencies (fire, medical, etc.)?	How would you rate the interaction and communication with the plant staff?	Did you observe a safety among the employees at the plant?	How would you rate the effectiveness of the safety training and awareness programs at the plant?	How would you rate the logistical arrangements including transportation, scheduling, and safety measures?	Was the duration of the visit appropriate for covering all topics of interest?	How relevant and informative did you find the visit regarding industrial safety best practices?	What aspect of Bosch's operations impressed you the most during the visit?	What improvements or additional content would you suggest for future visits to Bosch Ltd?
S B Kalatage	Srushti College	Excellent	Excellent	Yes	No	Very Good	Very Good	Yes	Excellent	Average	Far too short	Extremely relevant	Friendliness of all officials and hospitality, thorough knowledge safety protocols.	Shop visits , Business Process and practices, Training and development of employees both at technical and commercial
Dr. Ramesh N	Atria IT	Excellent	Excellent	Yes	Yes	Excellent	Excellent	Yes	Excellent	Excellent	Just right	Extremely relevant	Fire systems & Machines automation	1. Production Visit. 2. Kindly plan for industry visit in ECE related companies. Thank you all
Dr.Srinivasa Chari V	Atria IT	Good	Good	Yes	Yes	Good	Good	Yes	Good	Good	Just right	Very relevant		
Dr kiran kumar N	Vemana IT	Good	Good	Yes	Yes	Excellent	Excellent	Yes	Excellent	Good	Slightly long	Very relevant	Inhouse technology	Shop floor visit



Dr Nagarajan G	RRCE	Good	Very Good	Yes	Yes	Excellent	Very Good	Yes	Very Good	Good	Slightly short	Extremely relevant	Quality & Maintenance	Plant shop floor, Machine shop
Gurumurthy M	JIT	Good	Good	Yes	No	Very Good	Very Good	Yes	Excellent	Good	Slightly short	Very relevant	Yes	As we came from different places to the plant. Company should more focus on practical exposure rather than presenting a presentation . Which can be done in our college-premises, company visit is not required though.
Dr. Younus Pasha	HKBK	Excellent	Excellent	Yes	Yes	Excellent	Excellent	Yes	Excellent	Excellent	Just right	Extremely relevant	Fire safety and chemical safety aspects	-

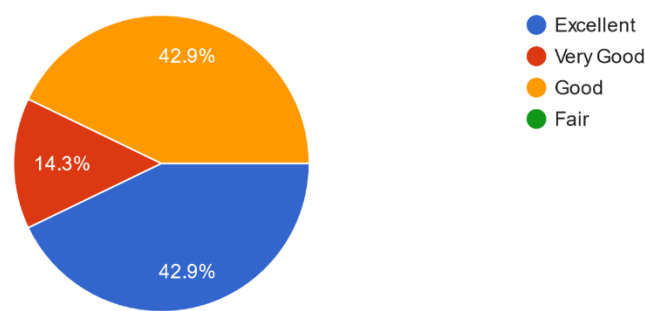
How would you rate the overall organization of the visit to Bosch Ltd?

7 responses



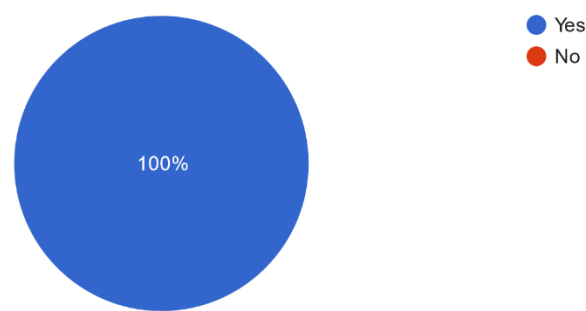
How effective was the initial safety briefing provided at the beginning of the visit?

7 responses



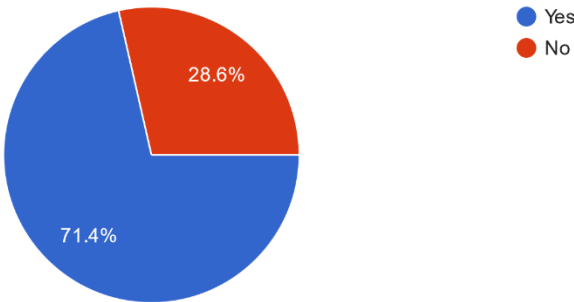
Were the safety measures and protocols at the plant clearly communicated and followed?

7 responses



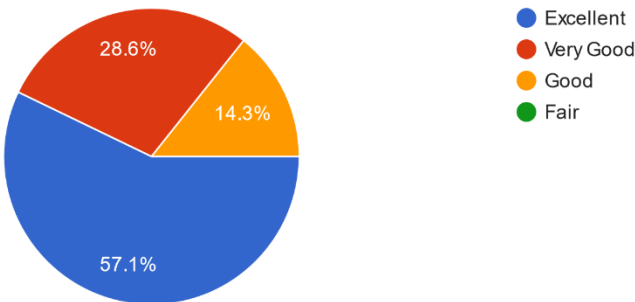
Was appropriate PPE provided and were you instructed on its correct use?

7 responses



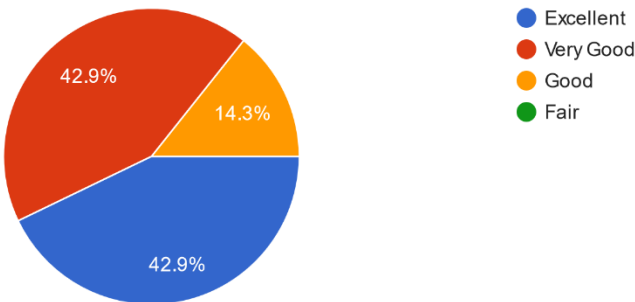
How well-prepared did you feel the plant was for handling emergencies (fire, medical, etc.)?

7 responses



How would you rate the interaction and communication with the plant staff?

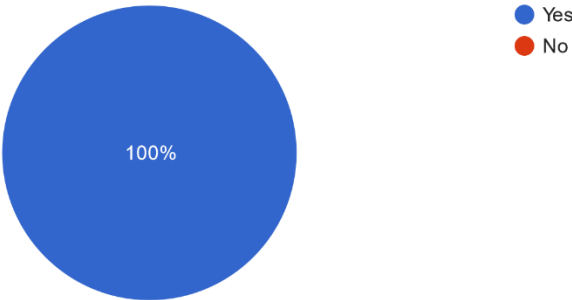
7 responses





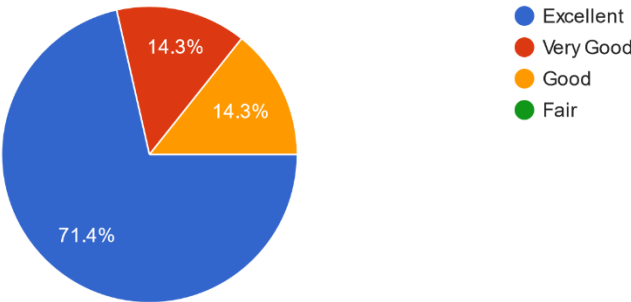
Did you observe a safety among the employees at the plant?

7 responses



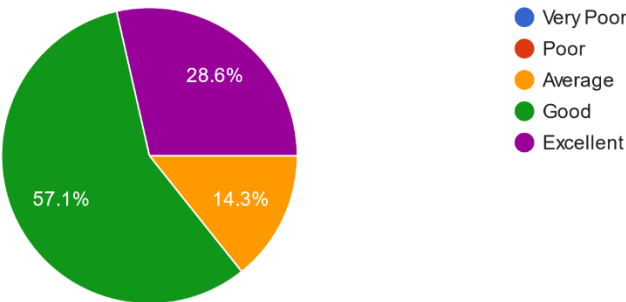
How would you rate the effectiveness of the safety training and awareness programs at the plant?

7 responses



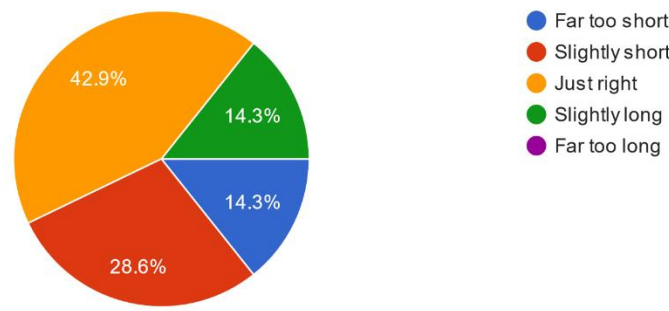
How would you rate the logistical arrangements including transportation, scheduling, and safety measures?

7 responses



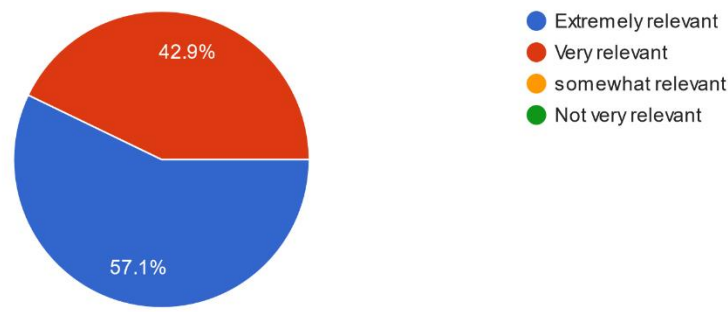
Was the duration of the visit appropriate for covering all topics of interest?

7 responses



How relevant and informative did you find the visit regarding industrial safety best practices?

7 responses





Kammavari Sangham  
K S INSTITUTE OF TECHNOLOGY



# CERTIFICATE



**ANILKUMAR A** from K S Institute of Technology

This certificate is given to acknowledge your active participation in 5 Days Faculty Development Program on “**Best Practices in Industrial Safety**” held at *Toyota Kirloskar Auto Parts Pvt. Ltd, Toyota Kirloskar Motor Pvt. Ltd, Sansera Engineering Ltd, Prabha Industries, Bosch Ltd.* Organized by Department of Mechanical Engineering, KSIT in association with K S Research & Innovation Foundation from **13th - 17th May 2024.**

**Dr. GIRISH T R**  
Associate Professor  
and HEAD - ME, KSIT

**Dr. DILIP KUMAR K**  
Principal / Director  
KSIT

**Dr. D R SWAMY**  
Executive Director  
KSIRIF

**Dr. K V A BALAJI**  
CEO  
KSGI

**Dr. T V NARAYANAPPA**  
Deputy Director of Factories,  
GOK





## DEPARTMENT OF MECHANICAL ENGINEERING

### Staff Development Program Report

**Dates: June 27th-29th, 2024**

**Venue: K S Institute of Technology**

#### **Introduction**

The Staff Development Program (SDP) held from June 27th-29th, 2024, aimed to enhance the skills, knowledge, and overall professional growth of non-teaching staff members from KSIT, KSSEM, KSP, KS PUC, and KSSA. The program was attended by 71 participants and included a series of sessions conducted by esteemed speakers, focusing on various aspects of professional development, maintenance, safety, health, and wellness.



**Fig: Inauguration of Staff Development Program**



**Fig: Participants at Inauguration of Staff Development Program**



**Day 1: June 27th, 2024**

Sessions and Speakers:

**1. Professionalism & Career Development**

- Speaker: V. Anantha Ramaiah
- Summary: The session emphasized the importance of professionalism in the workplace and provided participants with strategies to advance their careers. Key topics included effective communication, time management, and leadership skills.

**2. Maintenance & Safety at Workplace**

- Speaker: Sreedhar
- Summary: This session focused on the critical aspects of workplace maintenance and safety protocols. Participants were trained on safe equipment handling, emergency procedures, and creating a safe working environment.



**Fig: V. Anantha Ramaiah Taking over the session**



**Fig: Mr Sreedhar Taking over the session**

**Day 2: June 28th, 2024**

Sessions and Speakers:

**1. Health & Wellness**

- **Speaker:** Hanumantha Rao
- **Summary:** Hanumantha Rao led a comprehensive session on health and wellness, highlighting the significance of physical and mental health in enhancing workplace productivity. Topics covered included stress management, yoga practices, and health awareness.

**2. Requirement of Accreditation & Ranking Framework**

- **Speaker:** Dr. Shashikumara S R
- **Summary:** Dr. Shashikumara S R discussed the essential requirements for accreditation and the importance of adhering to ranking frameworks. The session provided insights into maintaining academic and operational excellence, ensuring compliance with standards.







**Fig: Session handled by Hanumantha Rao and Dr Shashi Kumara S R**

**Day 3: June 29th, 2024**

**Activity: Visit to Sri Sri Ravishankar Guruji Ashram (Art of Living)**

- **Summary:** On the final day, participants visited the Sri Sri Ravishankar Guruji Ashram (Art of Living) to gain insights into holistic living and stress relief techniques. The visit included interactive sessions on meditation, team-building activities, and exploring the principles of the Art of Living foundation.







**Fig: Group Photo at Sri Sri Sri Ravishankar guruji Ashrama (Art of living)**





**Fig: Group Photo with all participants**

### **Participants' Feedback**


The feedback from participants was overwhelmingly positive. They appreciated the diverse range of topics covered and the expertise of the speakers. The sessions were described as informative and engaging. The visit to the ashram was particularly well-received, providing a unique and enriching experience.

### **Conclusion**

The Staff Development Program successfully achieved its objectives of enhancing professional skills, promoting health and wellness, and fostering a culture of continuous learning among non-teaching staff. The active participation and enthusiasm of the attendees contributed to the overall success of the program. We look forward to organizing more such programs in the future to continue supporting the professional development of our staff.

### **Acknowledgements**

We extend our sincere gratitude to the speakers and participants for their invaluable contributions to the success of this program. Special thanks to V. Anantha Ramaiah, Sreedhar, Hanumantha Rao, and Dr. Shashikumara S R for sharing their knowledge and expertise.

  
Signature of the Coordinators

  
Signature of HOD  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109

  
Signature of Principal  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.

## ABOUT THE SDP

Empowering non-teaching staff in an engineering college is crucial for the institution's success. These staff members significantly impact accreditation, lab maintenance, and health care, thereby enhancing the college's academic and operational quality. They provide essential administrative support, manage records, and facilitate communication, ensuring the college meets accreditation standards. Educating them about the accreditation process aligns efforts towards academic goals.

Effective lab maintenance is vital for practical sessions; training staff in safe equipment handling improves the learning environment. Additionally, educating them on health and safety protocols ensures a safer, healthier campus. Overall, training non-teaching staff in these areas helps the college meet accreditation requirements, boosts productivity, and fosters a supportive learning atmosphere.

## THE AIM & OBJECTIVES OF THE PROGRAM IS TO:

- 1. Enhance Skills and Efficiency:** Offer opportunities for non-teaching staff to learn new skills, update their current ones, & ensure they are well-prepared to perform their duties effectively.
- 2. Improve Communication and Teamwork:** Foster better communication and teamwork among non-teaching staff members.
- 3. Promote Continuous Learning:** Cultivate a culture of ongoing learning and professional development.
- 4. Focus on Wellness and Work-Life Balance:** Address wellness and work-life balance to create a healthy and positive work environment.
- 5. Increase Accreditation Awareness:** Enhance understanding of accreditation and its requirements.

## WHO CAN PARTICIPATE?

Non-Teaching Staff including Attenders, Lab Instructors, Foremen, Supporting staffs of KSIT & KSSEM.

Date	Time	Topic/ Activity
Day 1	9.30 -10.00 AM	Inaugural ceremony
	10 AM-12 PM	Professionalism & Career Development
	1.30-3.30 PM	Maintenance & Safety at Workplace
Day 2	10 AM-12 PM	Health & Wellness
	1.30-3.30 PM	Requirement of Accreditation & Ranking Framework
Day 3	10 AM-2.30 PM	Team Building Activities, Industry Visit & Team Outing
	3.00-3.30 PM	Valedictory

## ABOUT THE SANGHAM

The Kammavari Sangham a multi-activity non-profit oriented voluntary service organization was established in the year 1952 with the sole objective of providing charitable service to community and society. The Sangham has diversified its activities since its establishment over five decades ago with a firm belief that quality and meaningful education only can lay the strong foundation for bringing about economic and social changes to the lives of thousands. The Sangham went about establishing educational institutions starting with K.S. Polytechnic in 1992. Enthused with this success of its foray into technical education, the Sangham moved forward starting the K.S. Institute of Technology (KSIT) in the year 1999, K. S. School of Engineering & Management (KSSEM) in the year 2010, K. S. School of Architecture (KSSA) in the year 2015 & K. S. PU College in 2022. In the following years these institutions have carved for themselves an enviable niche through academic excellence achieved in a very short span of time. By providing free hostel accommodation and scholarship to the deserving students in the community, it has furthered its commitment to education.

## ABOUT THE INSTITUTE

K. S. Institute of Technology was established in the year 1999 by the Kammavari Sangham with a commitment to provide value based technical education. KSIT is strategically located at No. 14 Raghuvanahalli, Kanakapura Main Road, Bengaluru. The Institution has modern infrastructure with state-of-the-art equipment and laboratory facilities, well qualified faculty and an impressive placement record. The objective of KSIT is to impart quality education to students and enable them to develop the abilities of problem solving, creative thinking and adaptability in their chosen field. KSIT is NAAC & NBA accredited.

## ABOUT THE DEPARTMENT

The Department of Mechanical Engineering at KSIT is as old as the Institute itself. Today, the department of Mechanical Engineering at KSIT attracts & features an extraordinary rich diversity & quantity of talented individuals, with nearly 450 undergraduates supported by experienced and highly qualified teaching & nonteaching staff. There is a concerted effort to raise the "Aspirational reference point" of the pupils undergoing graduate program in engineering by subjecting them to continuous value addition. Hence The Department has been producing excellent results with distinctions in the university examinations consistently. In addition to class room teaching learning processes students are guided & encouraged to be familiar with emerging technology. Our students have been actively associating themselves with industries through industrial projects, in plant training and Industrial visits with almost all Mechanical engineering oriented organizations/industries. We feel proud to inform that our students earn places in the merit list of University Examinations every year.



KAMMAVARI SANGHAM (R) - 1952  
**K. S. INSTITUTE OF TECHNOLOGY**  
( Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka )  
( Accredited by NBA : CSE & ECE )  
( Accredited by NAAC )  
#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109



## 3 Days Staff Development Program on

## "EMPOWERMENT THROUGH EXCELLENCE: PROFESSIONAL GROWTH FOR NON - TEACHING STAFF"

27<sup>th</sup> - 29<sup>th</sup> June, 2024

Venue  
**K S I T College, Bengaluru**

Organized by  
**Department of  
Mechanical Engineering**

In Association With  
**K S Research & Innovation Foundation  
(KSRIF)**





CHIEF PATRONS

**Sri. R. Rajagopal Naidu**  
President, Kammavari Sangham

**Sri. R. Leela Shankar Rao**  
Hon. Secretary, Kammavari Sangham

**Sri. T. Neerajakshulu Naidu**  
Treasurer, Kammavari Sangham

PRESIDED BY

**Dr. K.V.A. Balaji**  
CEO, KSGI

**Dr. Dilip Kumar K**  
Principal / Director, KSIT

**Dr. D. R. Swamy**  
Executive Director, KSRIF

**Dr. Umashankar. M**  
Professor & COE, KSIT

**Dr. Girish T. R**  
Associate Professor & Head Mechanical, KSIT

CONVENERS

**Mr. Anil Kumar A**  
Asst. Professor, Dept. of Mech, KSIT

**Mr. Ranganath N**  
Asst. Professor, Dept. of Mech, KSIT

ORGANISING COMMITTEE

**Mr. Nagabhushana M**  
Assoc. Professor, Dept. of Mech, KSIT

**Mr. Prasad K**  
Assoc. Professor, Dept. of Mech, KSIT

**Dr. Nagaprasad K S**  
Assoc. Professor, Dept. of Mech, KSIT

**Dr. Nirmala L**  
Assoc. Professor, Dept. of Mech, KSIT

**Mr. Manjunath B R**  
Asst. Professor, Dept. of Mech, KSIT

**Mr. Harish U**  
Asst. Professor, Dept. of Mech, KSIT

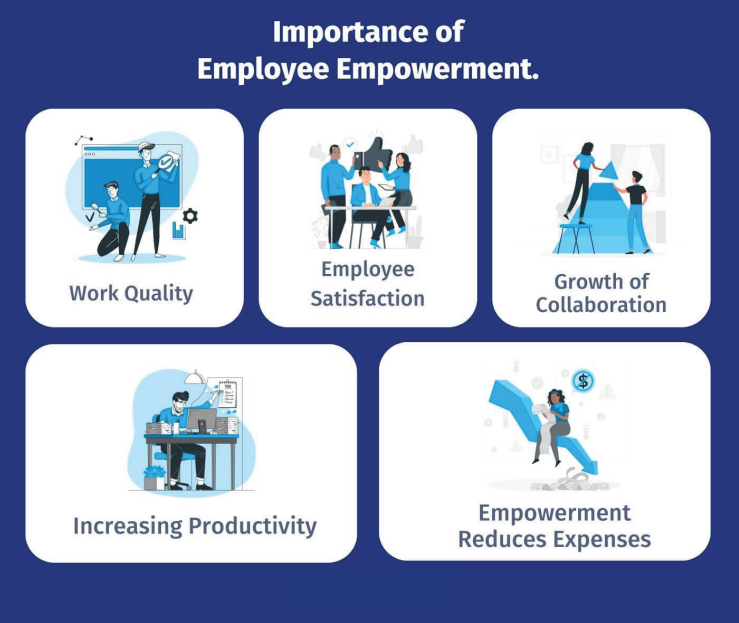
**Dr. Saleem Khan**  
Asst. Professor, Dept. of Mech, KSIT

**Mr. Rajesh G L**  
Asst. Professor, Dept. of Mech, KSIT

**Dr. Srinidhi Acharya S R**  
Asst. Professor, Dept. of Mech, KSIT

EXPECTED OUTCOMES

- The proposed SDP will achieve the following:
1. Better skills in meeting accreditation standards, ensuring the institution maintains high quality.
  2. A safer and healthier campus environment.
  3. Improved lab maintenance, creating a safer and more effective learning space.
  4. Better teamwork and communication between teaching and non-teaching staff, leading to a more unified campus.
  5. Increased job satisfaction and morale among non-teaching staff due to enhanced skills and responsibilities.



REGISTRATION

Registration is Free for All The Non-Teaching Staff of KSIT & KSSEM

Last Date For Registration: 25-06-2024

Scan Here For Registration



REGISTRATION FORM (Offline Mode)

Name.....

Designation.....

Department.....

Institution.....

Address.....

.....

Mob No.....

Email.....

Date.....

Registration: Free

Contact Details For Registration:

Mr. Anil Kumar A : 8197975168

Email : anilkumara@ksit.edu.in

Mr. Ranganath N : 9743336296

Email : rangnanathn@ksit.edu.in

Signature of Applicant

Signature & Seal of Principal



KAMMAVARI SANGHAM (R) - 1952

**K. S. INSTITUTE OF TECHNOLOGY**

( Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NBA & NAAC )

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel: 080-28435722 / 24

Web : [www.ksit.edu.in](http://www.ksit.edu.in)

**DEPARTMENT OF MECHANICAL ENGINEERING**

**REPORT ON INDUSTRIAL VISIT TO**

**TOYOTA KIRLOSKAR AUTO PARTS Pvt. Ltd (TKAP) ON 28/02/2024**

**Date of Visit: 28<sup>th</sup> February 2024**

**Industry Address: Toyota Kirloskar Auto Parts Pvt. Ltd (TKAP)**

# 21, Bidadi Industrial Area, Bidadi, Bengaluru, Karnataka 562109

**Time: 9:00am to 4:00pm**

**Duration: 6Hours**

**Sponsoring Bodies / Associating Organization: K S Research & Innovation Foundation (KSRIFF)**

**Brief about the Industry:**

Toyota Kirloskar Auto Parts Pvt. Ltd (TKAP) is a powertrain manufacturing ancillary of Toyota, established in May 2004. TKAP is a joint venture between Toyota Motor Corporation, Aisin Corporation and Kirloskar Systems Limited. The product profile includes Manual Transmission, Chassis mounted drive train units and Hybrid Transmissions. TKAP is located on a 60-acre facility in Bidadi, Karnataka. TKAP is equipped with state-of-the-art infrastructure to source, manufacture and supply powertrain solutions to meet global demands at local competitiveness.

**Overview of the Visit:**

We had the opportunity to visit the Toyota Kirloskar Auto Parts Industry, a leading manufacturer in the automotive sector. The visit provided valuable insights into their operations, production processes, safety practices and commitment to quality.

**Key Observations:**

1. **Facility Tour:** The manufacturing plant boasts state-of-the-art facilities, including automated assembly lines and advanced machinery. The layout is organized for efficiency, with clearly defined areas for different stages of production.

2. **Quality Control:** Toyota Kirloskar maintains rigorous quality control standards throughout the production process. We observed multiple checkpoints where components were inspected for defects, ensuring adherence to Toyota's renowned quality standards.
3. **Innovative Technologies:** The Company emphasizes innovation and invests in cutting-edge technologies to enhance productivity and product quality. We witnessed the use of robotics and automation like low cost automation in various stages of production, streamlining processes and minimizing human error.
4. **Employee Welfare:** Toyota Kirloskar prioritizes employee welfare and safety. Workers appeared well-trained and equipped with appropriate safety gear. The company also promotes a culture of continuous learning and skill development among its workforce.
5. **Environmental Sustainability:** There was a noticeable emphasis on environmental sustainability, with initiatives in place to reduce waste and minimize environmental impact. The plant utilizes eco-friendly practices and energy-efficient technologies to mitigate its carbon footprint.

**Conclusion:** Overall, our visit to Toyota Kirloskar Auto Parts Industry was informative and insightful. The company's commitment to excellence, innovation, and sustainability underscores its position as a leader in the automotive industry. We commend their dedication to quality and look forward to witnessing their continued success in the future.

#### **Objectives / Key Highlights:**

- Explore the advanced manufacturing technologies, automated assembly lines in vehicle manufacturing.
- Understand the importance of safety standards and sustainable practices in industrial settings.

#### **Participants Details:**

**Number of Participants:** 24

**Students (Internal / External):** Internal / 24 Students of 3<sup>rd</sup> Semester  
Mechanical Engineering, KSIT

**Faculty Participants:** 03

**Mr. Anilkumar A**, Assistant Professor, MED

**Mr. Ranganath N**, Assistant Professor, MED

**Mr. Harish U**, Assistant Professor, MED



## Photos:



Industry Visit to Toyota Kirloskar Auto Parts Pvt. Ltd

At Toyota Kirloskar Auto Parts Pvt. Ltd.



Group Photo with Staff of TKAP

## Outcome/ Benefits:

The Industrial Visit to Toyota Kirloskar Auto Parts Pvt. Ltd was a resounding success, offering students a rich learning experience and practical exposure to the automotive industry. The insights gained will not only complement their academic knowledge but also help them to make informed career choices and contribute effectively to the industry in the future.

## CO/PO & PSO Mapping:

CO/PO & PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Industry Visit	-	-	-	-	1	-	1	-	1	1	-	1	-	1
Average	-	-	-	-	1	-	1	-	1	1	-	1	-	1

**PO5-Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO7-Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO9-Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10-Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

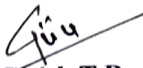
**PO12-Life-long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

**PSO2-** Ability to develop effective communication, team work, entrepreneurial and computational skills.



**Mr. Anilkumar A**

Assistant Professor, MED



**Dr. Girish T R**

HOD, MED

Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560109



**Dr. Dilip Kumar K**

Principal / Director

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.





**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE**

**INDUSTRY INSTITUTE INTERACTION CELL**

**&**

**DEPARTMENT OF MECHANICAL ENGINEERING**



## **INDUSTRY VISIT TO**

### **“GOVERNMENT TOOL ROOM & TRAINING CENTRE (GTTC), BENGALURU”**

**Date of Visit: 12<sup>th</sup> December 2023**

**Industry address: GTTC, Rajajinagar Industrial Estate, Bengaluru-560010**

**Time: 9.00AM – 4.00PM**

**Duration: 6 Hours**

**Sponsoring Bodies / Associating Organization: NA**

#### **Brief about the Industry:**

GTTC was established in 1972 at Bangalore with the participation of the Karnataka State Government, in collaboration with the Government of Denmark under the Bilateral Development Co-operation Agreement. The excellent performance of GTTC Bangalore, proactive Government of Karnataka which saw the need for expansion, got second unit of GTTC started in 1992 with DANIDA assistance. GTTC is an autonomous society, and a recognized Scientific and Research Organization by the Government of India. Govt. Tool Room and Training Centre (GTTC), is serving industry by way of precision tooling and providing in well trained craftsmen the area of tool and die making. GTTC is concentrating on the Integrated Development of the related segments of industries by way of providing international quality tools, trained personnel and consultancy in tooling and related areas. In future, the focus would be more on turnkey projects in Tooling, Aerospace components & their assemblies, and also to support the development of small and medium scale enterprises.

#### **Description of the Event:**

As per the directions of Dr. Girish T.R, Head - MED, 3<sup>rd</sup> & 5<sup>th</sup> Semester ME students assembled in parking area at 8.45AM. The journey towards industry started at 9.00AM with students and faculty in-charge & chief coordinator, IIIC – KSIT, Mr. Rajesh G.L; and reached GTTC, Rajajinagar centre at 10.00AM. Shri. Nagendra J, Head – CoE, GTTC welcomed us and outlined about the agenda of visit. Initially students are informed to visit “Robotics Lab” to understand the working of robots in various applications like pick and place operation, MIG & TIG Welding, plasma welding etc. Students were then taken to CNC Machine lab where they explored on turning and milling center and their operation. Mrs. Jayaram, Lecturer, Department of Tool Engineering, demonstrated 3D printing technology and interacted with students on 3D manufacturing methods and applications. Further, students had the opportunity to visit Autodesk training centre, IoT lab, mechatronics lab and metrology lab. The visit ended with vote of thanks by Mr. Rajesh G.L at 3.00PM.

#### **Objectives / Key Highlights:**

- Explore the applications of advanced manufacturing technology like 3D printing.
- Understand the importance of automation tools and techniques.



Participant details - No. of Participants: 36

Students (internal/external): Internal (3<sup>rd</sup> & 5<sup>th</sup> Semester – ME) - 36

Faculty: Mr. Rajesh G.L, Asst. Prof, MED

Photos (Geo Tagged):



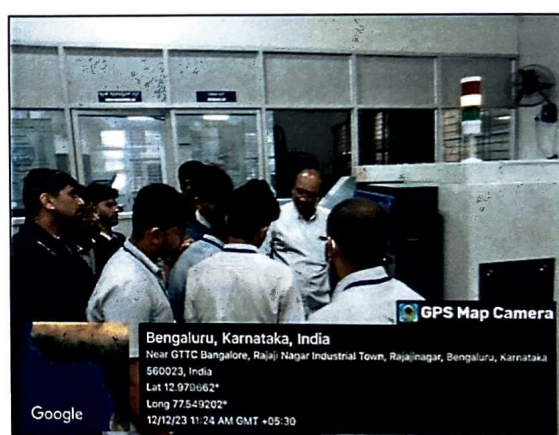
Technical visit to GTTC



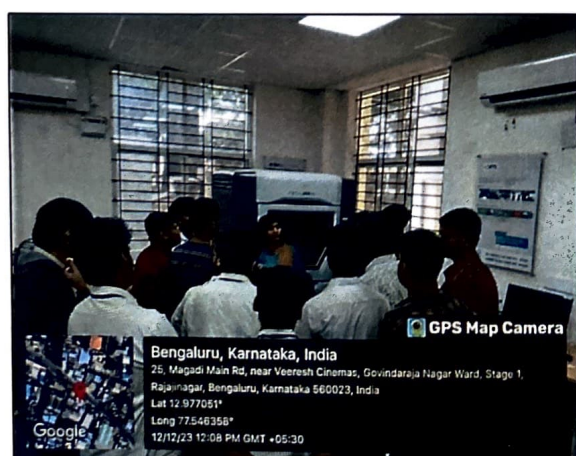
Mr. Nagendra J briefing about schedule of visit



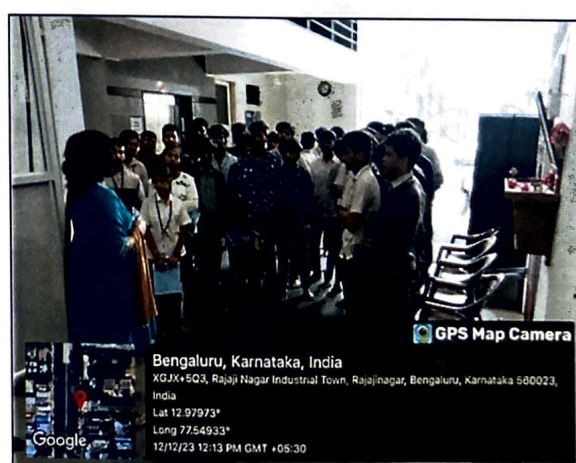
Robotics Lab – Pick & Place Robot operation



CNC machine lab – Turning center



3D Printing Machine with fabricated models



Visit ended at 3.00PM

### Outcomes / Benefits:

- Students explored the operation of different types of industrial robots
- Understood working principle of 3D printing, concept of machining centers and automation tools

### Attachments:

1. Communication with Industry
2. Industry visit circular and transport arrangement request letter
3. Feedback

### CO/PO&PSO mapping

CO/PO&PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
Industry visit	-	-	-	-	01	-	-	-	-	-	-	01	-	-
Average	-	-	-	-	01	-	-	-	-	-	-	01	-	-

**PO5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**Mr. Rajesh G.L**

Chief Coordinator - IIIC

Industry Institute Interaction Cell (IIIC)  
K. S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

**Dr. Girish T.R**

Head - MED

Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

**Dr. Dilip Kumar K**

Principal, KSIT

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.





# K S INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC, NBA & ULL)

Kanakapura Main Road, Raghuvanahalli, Bengaluru-560109

## INDUSTRY INSTITUTE INTERACTION CELL (IIIC)

Date: 4<sup>th</sup> July 2023

To,

The Principal  
K.S. Institute of Technology  
Bengaluru-560109



**Subject:** Requesting permission for **Industrial visit** to BAIL, Bangalore  
Through Dr. Umashankar M. Head of the Department, ME

Respected Sir,

As stated in the above subject, Industry-Institute Interaction Cell (IIIC-KSIT) in association with Department of Mechanical Engineering is planning for industrial visit to Bangalore Aircraft Industries Ltd (BAIL) on **7<sup>th</sup> of July 2023**. The purpose of this visit is to understand the design aspects and methodologies used for testing aircraft components. Mechanical Engineering students from 2<sup>nd</sup> and 4<sup>th</sup> semester, along with the faculties will be joining the visit.

Mr. Girish, Co-founder & Director of BAIL has accepted our visit request and provided slot i.e. between 10.00AM – 4.00PM on said date. Email communications are enclosed here for kind perusal.

Kindly permit us to visit BAIL on 7<sup>th</sup> July 2023 and thus oblige.

Thanking you.

Yours faithfully

A/7/23

Prof. Rajesh G.L.

Member Convener-IIIC,  
KSIT

**MEMBER CONVENER**  
Industry Institute Interaction Cell (IIIC)  
K.S. INSTITUTE OF TECHNOLOGY  
Bengaluru - 560109

4/7/23

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560109

5/7/23

Head-ME, KSIT

Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560109.





Gmail

KSIT INDUSTRY INSTITUTE INTERACTION CELL &lt;ksit\_iic@ksit.edu.in&gt;

**Requisition for Industrial Visit; Reg**

Fri, Jun 16, 2023 at 2:26 PM

KSIT INDUSTRY INSTITUTE INTERACTION CELL &lt;ksit\_iic@ksit.edu.in&gt;

To: girish@bailindia.com

Cc: umashankarm@ksit.edu.in, hodmech@ksit.edu.in

Dear Girish sir,

Greetings from K.S Institute of Technology, Bengaluru,

As per our telephonic conversation, I hereby confirm the industrial visit to your esteemed organization on **6th July 2023** at your convenient time. 30 students along with 3-4 professors will be part of the visit positively.

Kindly confirm the visit date and thus oblige.

Thank you

With regards,

**Prof. RAJESH G.L.**, M.TechMember Convener, Industry Institute Interaction Cell (IIIC) &  
Assistant Professor, Department of Mechanical Engineering,

K.S Institute of Technology, Bengaluru 560062 Karnataka.

Cell: +91-9916468891

Website: <https://ksit.edu.in/>

143 AM

K.S. Institute Of Technology Mail - Requisition for Industrial Visit, Reg

Gmail

KSIT INDUSTRY INSTITUTE INTERACTION CELL <ksit\_iic@ksit.edu.in>

## Requisition for Industrial Visit; Reg

Girish K E <girish@bailindia.com>

Thu, Jun 22, 2023 at 11:23 AM

To: KSIT INDUSTRY INSTITUTE INTERACTION CELL <ksit\_iic@ksit.edu.in>

Cc: umashankar@ksit.edu.in, hodmech@ksit.edu.in

Dear Prof. Rajesh,

Hereby **it is confirmed from BAIL** for the Industrial visit by your team of students & Faculties.

Date of visit: 06th July 2023

Time: 10:00 AM to 4 PM.

Please make sure that all the visitors are at BAIL premises by 09:45 AM

Thanks & Regards



K E Girish

Mob: 09845383493

Off: 08024487213

www.bailindia.com



Signature of Girish K E



KSIT INDUSTRY INSTITUTE INTERACTION CELL &lt;ksit\_iic@ksit.edu.in&gt;

**Requisition to reschedule industry visit - Reg**

Wed, Jul 5, 2023 at 1:10 PM

KSIT INDUSTRY INSTITUTE INTERACTION CELL &lt;ksit\_iic@ksit.edu.in&gt;

To: Girish K E &lt;girish@bailindia.com&gt;

Cc: umashankarm@ksit.edu.in, hodmech@ksit.edu.in

Dear Girish sir,

Greetings of the day

As discussed over the phone, I request your goodself to reschedule industry visit to 7th of July 2023 between 10.00AM to 4.00PM. Kindly confirm the same.

Thanks &amp; Regards

--

Prof. RAJESH G.L., M.Tech

Member Convener, Industry Institute Interaction Cell (IIIC) &amp;

Assistant Professor, Department of Mechanical Engineering,

K.S Institute of Technology, Bengaluru 560062 Karnataka.

Cell: +91-9916468891

Website: <https://ksgi.edu.in/>





KSIT INDUSTRY INSTITUTE INTERACTION CELL &lt;ksit\_iic@ksit.edu.in&gt;

## Requisition to reschedule industry visit - Reg

**Girish K E** <girish@bailindia.com>

Wed, Jul 5, 2023 at 1:55 PM

To: KSIT INDUSTRY INSTITUTE INTERACTION CELL <ksit\_iic@ksit.edu.in>

Cc: umashankarm@ksit.edu.in, hodmech@ksit.edu.in

Hello Prof. Rajesh,

We will have the visit on 07th July 2023 as discussed.

Please the visit accordingly.

Thanks & Regards



**K E Girish**

Mob: 09845383493

Off: 08024487213

www.bailindia.com



Quis [text hidden]



KSIT INDUSTRY INSTITUTE INTERACTION CELL &lt;ksit\_iic@ksit.edu.in&gt;

**Requisition to reschedule industry visit - Reg****KSIT INDUSTRY INSTITUTE INTERACTION CELL <ksit\_iic@ksit.edu.in>**

Wed, Jul 5, 2023 at 2:29 PM

To: Girish K E &lt;girish@bailindia.com&gt;

Cc: umashankarm@ksit.edu.in, hodmech@ksit.edu.in

Dear Girish Sir,

Thank you for rescheduling the visit.

I apologize for the inconvenience caused from our end.

Further, I hereby confirm that students along with faculties will be visiting your esteemed organisation on 7th July 2023 before 9.45AM positively.

Thank you.

[Signature]





# K. S INSTITUTE OF TECHNOLOGY, BENGALURU

14, Kanakapura Main Road, Raghuvanahalli, Bengaluru, Karnataka - 560109

## INDUSTRY INSTITUTE INTERACTION CELL (IIIC)

Date: 04-07-2023



### CIRCULAR

#### Industrial Visit for 2<sup>nd</sup> & 4<sup>th</sup> Semester MECH Students

Industry Institute Interaction Cell (IIIC) in association with Department of Mechanical Engineering has planned for Industrial Visit to Bangalore Aircraft Industries Ltd (BAIL), Aerospace Park KIADB, B. Marenahalli, Kavadedasarahalli Bengaluru on 7<sup>th</sup> of July 2023.

2<sup>nd</sup> and 4<sup>th</sup> Semester Mechanical students are informed to assemble in college bus parking area at 8.30AM sharp.

**Note:** All students should wear **uniform** and college **ID card** without fail.

04/7/2023

**Prof. Rajesh G.L**

Member Convener - IIIC

**MEMBER CONVENER**  
Industry Institute Interaction Cell (IIIC)  
K.S. INSTITUTE OF TECHNOLOGY  
Bengaluru - 560109

04/7

**Dr. Umashankar M**

Prof & Head - ME  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

04/7/2023

**Dr. Dilip Kumar K**

Principal, KSIT  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.

#### CC TO:

- Class teachers of ME a) 2<sup>nd</sup> Sem:   
b) 4<sup>th</sup> Sem:
- IIIC Coordinators

ME





**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU**

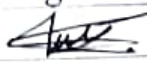
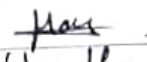
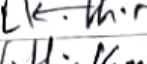
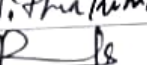


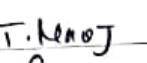
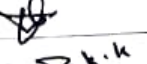
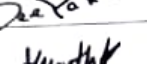
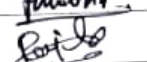

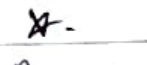
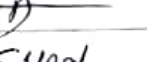
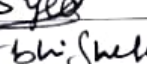
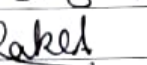
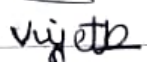

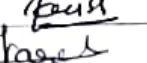
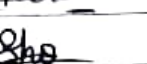






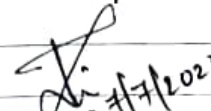
INDUSTRY INSTITUTE INTERACTION CELL (IIIC)



Attendance for Industry Visit to Bangalore Aircraft Industries Ltd (BAIL) held on 7<sup>th</sup> July 2023

★**Branch:** Mechanical Engineering (2<sup>nd</sup> and 4<sup>th</sup> Semester)

Sl. No	USN	Name	Signature
1	1KS22ME402	Jadhav. Karthik	
2	1KS21ME004	Harish Kumar.k	
3	1KS21ME006	EKANATH.A	
4	1KS21ME007	Nithin Kumar.P	
5	1KS21ME008	Pavan.k	
6	1KS21ME001	A.Ashw Basha	
7	1KS21ME005	manoj T.S	
8	1KS22ME405	T. Monoj	
9	1KS21ME009	Pavan Kumar.H	
10	1KS22ME400	Deepak.k	
11	1KS21ME003	Hemant.H	
12	1KS21ME010	Rajesh Kumar N.G	
13	1KS22ME403	himadri.S.B	
14	1KS21ME011	Rohit Kumar.S	
15	1KS22ME401	DINAKAR. D.M	
16	1KS22ME404	Syed Muzammil	
17	1KS22ME002	Abhishek. K.R	
18	1KS22ME005	Rakesh Gowda.S.R	
19	1KS22ME001	Vijeth Byraves	
20	1KS22ME004	Nithin Kumar	
21	1KS22ME003	Yandhi Kaish	
22	1KS22ME009	Theerth S	
23	1KS22ME007	Shobha .H.8.	

  
**MEMBER CONVENER**  
 Industry Institute Interaction Cell (IIC)  
 K.S. INSTITUTE OF TECHNOLOGY  
 Bengaluru - 560109



# K S INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC, NBA & IEI)

Kanakapura Main Road, Raghuvanahalli, Bengaluru-560109

## INDUSTRY INSTITUTE INTERACTION CELL (IIIC)

Date: 23<sup>rd</sup> June 2023



To,  
The Principal  
K.S. Institute of Technology  
Bengaluru-560109

**Subject:** Requesting transport arrangement for Industrial visit to BAIL, Bangalore  
Through Dr. Umashankar M, Head of the Department, ME

Respected Sir,

As stated in the above subject, Industry-Institute Interaction Cell (IIIC-KSIT) in association with Department of Mechanical Engineering is planning for industrial visit to Bangalore Aircraft Industries Ltd (BAIL) on 7<sup>th</sup> of July 2023.

In connection with this, I request your goodself to provide transport facilities from KSIT campus to BAIL at 9.30AM.

Thanking you.

Yours faithfully

*Handwritten signature*  
23/06/23  
+ 200 Rs  
Received  
[RAMANA]  
Transport Dept.

*Handwritten signature*  
23/06/23

Prof. Rajesh G.L

Member Convener-IIIC,  
KSIT

Forwarded to Secretary  
27/6/23

*Handwritten signature*  
24/6/23

Dr. Umashankar M

Head-ME, KSIT

Head of the Department  
Dept. of Mechanical Engg  
K.S. Institute of Technology  
Bengaluru - 560109

*Handwritten signature*  
23/6/23

**MEMBER CONVENER**

Industry Institute Interaction Cell (IIIC)

K.S. INSTITUTE OF TECHNOLOGY

Bengaluru - 560109



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE – 560109**



**INDUSTRY INSTITUTE INTERACTION CELL  
&  
DEPARTMENT OF MECHANICAL ENGINEERING**

**REPORT ON INDUSTRY VISIT TO  
“BANGALORE AIRCRAFT INDUSTRIES PVT LTD, BENGALURU”**

**Date of Visit: 7<sup>th</sup> July 2023**

**Industry address: BAIL, Plot no. 39, Aerospace Park, KIADB, Bangalore - 562129**

**Time: 9.00AM – 4.00PM**

**Duration: 6 Hours**

**Sponsoring Bodies / Associating Organization: NA**

**Brief about the Industry:**

BAIL is a zealous team of engineering professionals aiming to make the Aeronautical Industry in our country self-sustainable. They are continuously striving to achieve outstanding engineering capabilities in Aircraft Engineering focusing on creating the right minded professionals who will manifest themselves as a team to achieve the goal of Aircraft Design and Development. The mission is to Design, build and put civil aircraft in the global market. Run our own air-transportation service using our own designed aircraft, flown by our own pilots, trained in our own pilot training school. BAIL is currently supporting few Govt sector aeronautical engineering organizations by deployment of engineers on- site at these organizations for the execution of various activities in CSIR – NAL, ADA, ADE – DRDO and many more.

**Description of the Event:**

As per the directions of Dr. Umashankar M, Head - MED, 2<sup>nd</sup> & 4<sup>th</sup> Semester ME students assembled in parking area at 8.45AM. The journey towards industry started at 9.00AM with students and faculty in-charge & chief coordinator, IIIC – KSIT, Prof. Rajesh G.L; and reached BAIL, Aerospace Park at 11.00AM. Mr. Girish K.E, Co-founder & Director of BAIL and Mr. Nirmal B, Senior Engineer, BAIL welcomed us and outlined about the visit schedule. Initially students are informed to visit “components fabrication section” to understand the process and materials used for manufacturing the various aircraft structures. Mr. Nirmal B explained about the hand layup method used for fabricating aircraft interiors (epoxy and carbon fibre composites). Mr. Girish K.E explored students on material testing of produced aircraft products with the aid of computer assisted UTM which is designed and fabricated by BAIL. Also he explained about design considerations needed for development of aircraft component. The visit ended with vote of thanks by Prof. Rajesh G.L at 3.00PM.

**Objectives / Key Highlights:**

- Explore the methods of component fabrication used in aircraft industry
- Understand the importance of material testing and design aspects of aircraft structures





Participant details - No. of Participants: 23

Students (internal/external): Internal (2<sup>nd</sup> & 4<sup>th</sup> Semester – ME) - 23

Faculty: Prof. Rajesh G.L, Asst. Prof. MED

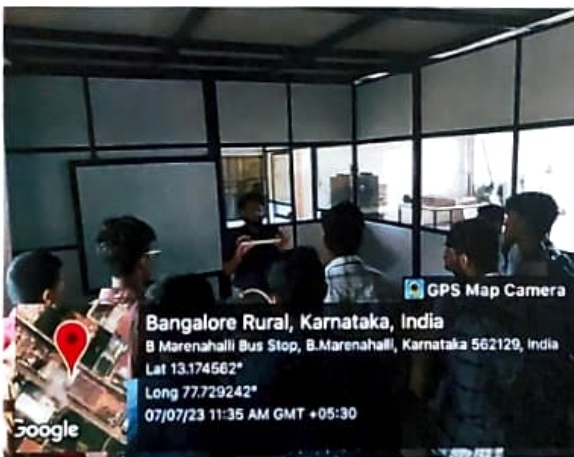
Photos (Geo Tagged):



Industry visit to BAIL from KSIT Campus



Mr. Girish K.E briefing about material testing



Mr. Nirmal B explaining hand layup method of producing epoxy reinforced carbon fibre composites



Design consideration explained by Mr. Girish K.E



Visit ended at 3.00PM

### Outcomes / Benefits:

- Students understood the fabrication process of aircraft components.
- Explored on design considerations, importance of material testing and factor of safety determination for aircraft modules.

### Attachments:

1. Communication with Industry
2. Industry visit circular and transport arrangement request letter
3. Feedback

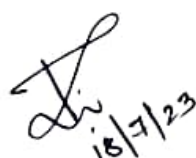
### CO/PO&PSO mapping

CO/PO&PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
Industry visit	-	-	01	-	-	-	-	01	-	-	-	-	01	-
Average	-	-	01	-	-	-	-	01	-	-	-	-	01	-

**PO3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

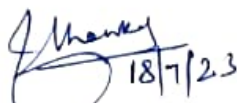
**PSO1:** Ability to apply concept of mechanical engineering to design a system, a component or a process/system to address a real world challenges



**Prof. Rajesh G.L**

Chief Coordinator - IIIC

**MEMBER CONVENER**  
Industry Institute Interaction Cell (IIIC)  
K. S. INSTITUTE OF TECHNOLOGY  
Bengaluru - 560109



**Dr. Umashankar M**

Prof & Head - MED

Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.



**Dr. Dilip Kumar K**

Principal, KSIT

**PRINCIPAL**  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



**KSIT**

KAMMAVARI SANGHAM (R) - 1952

K. S. GROUP OF INSTITUTIONS

**K. S. INSTITUTE OF TECHNOLOGY**

(Approved by AICTE, New Delhi, Affiliated to VTU, Belagavi, Karnataka, Accredited by NAAC & NBA [3, EC & MEC])

#14, Raghunahalli, Kanakapura Road, Bengaluru - 560109

## Industry Visit\_07-07-2023\_Feedback

18 responses

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### Event Date

18 responses

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7-07-2023

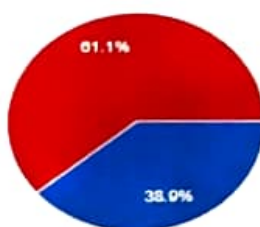
18 (100%)

0 5 10 15 20

### Branch - ME

18 responses

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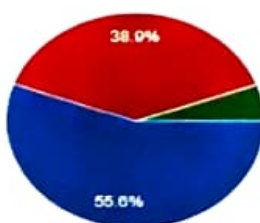


● 2nd Semester  
● 4th Semester

### 1 The visit was technology oriented

18 responses

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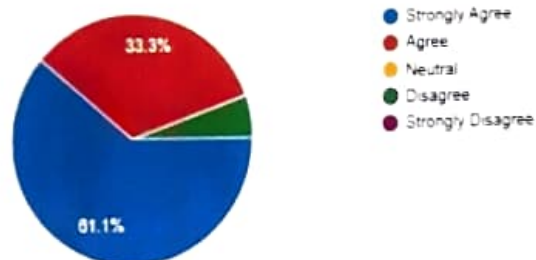
● Strongly Agree  
● Agree  
● Neutral  
● Disagree  
● Strongly Disagree



2 The Resource/Industry person was a good communicator

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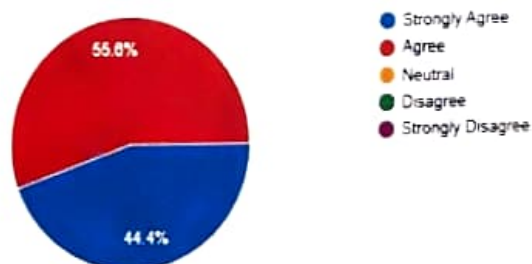
18 responses



3 The program was applicable to my future needs

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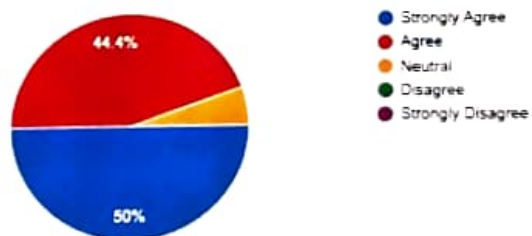
18 responses



4 Enhancement in skills

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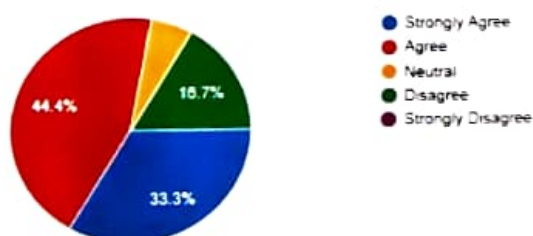
18 responses



5 The program was well placed within the allotted time

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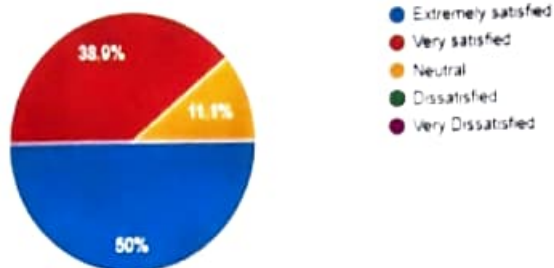
18 responses



6 How satisfied are you about the event?

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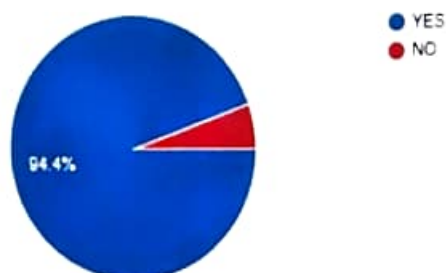
18 responses



7 Would you like to attend similar events in future?

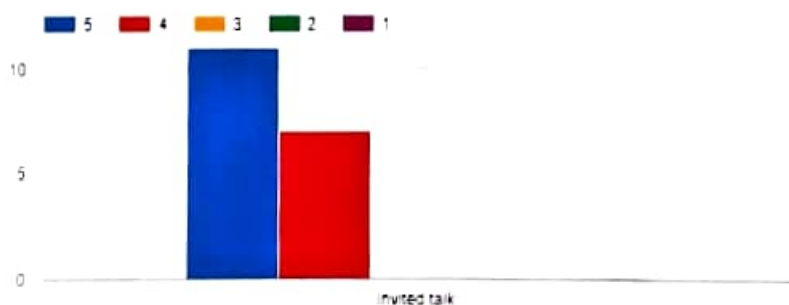
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18 responses



8 Overall Rating of the event

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21/7/2023

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Bengaluru - 560109