



Kalyani Charitable Trust's

## LATE G. N. SAPKAL COLLEGE OF ENGINEERING

(Accredited with Grade 'B' by NAAC)

Affiliated to ➤ Savitribai Phule Pune University (ID No PU/NA/Engg./152/2009 Ref.No -CA/6501 Dated- 18/11/2009)

Approved by ➤ A.I.C.T.E., New Delhi (F.N. 06/07/MS-Engg/2008/O-17, Dated- 11th June 2009)

➤ Govt. of Maharashtra (No. GEC-2009/(67/09)/T.E - 4, Dated- 15th June 2009)

➤ D.T.E., M.S., Mumbai (No. 2/NGC/Engg./Approval/2009/535, Dated - 23rd July 2009)

➤ AISHE CODE : C-42196



Dr. Ravindra G. Sapkal  
Chairman & Managing Director  
Kalyani Charitable Trust

Dr. Sahebrao B. Bagal  
M.E. (E & TC), Ph.D. (E & TC)  
Principal

### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ('MOU') is made on 01 September, 2024.

Between

**Kalyani Charitable Trust's, Late Gambhirrao Natuba Sapkal College of Engineering, (LGNSCOE) Anjaneri, Trimbakeshwar Road, Nashik.**

and

**Bhavin Wheels Pvt. Ltd.**

Plot No. E-12, Satpur MIDC, Pipeline Rd, In front of TDK Company, Nashik, Maharashtra 422007

(LGNSCOE and Bhavin Wheels Pvt. Ltd. hereinafter individually referred to as "Party" and collectively referred to as "Parties")

### Terms and Conditions:

#### **1. Duration**

This MoU shall be valid for Three (3) years from 1<sup>st</sup> September, 2024 and thereafter it may be renewed on mutually agreed terms.

#### **2. Purpose**

This MOU is for collaboration between the parties for mutual benefit where Bhavin Wheels Pvt. Ltd to provide

- Industrial visit for faculties and students.
- Industrial training/workshop for students and staff
- Experts for Guest lecturers as per the expertise available in industry.
- Sponsorship for industrial project and mentoring for interviews of Final year students.
- To provide an opportunity to most eligible students for professional work experience through employment, if possible
- Assistance for developing project ideas for students of LGNSCOE.
- Technical guidance for lab developments in LGNSCOE. Nasik
- Platform for planning and utilizing resources like staff and infrastructure for joint. R&D work.
- Sponsoring the events activities being conducted at LGNSCOE, Nasik.

- **CAMPUS :** Sapkal Knowledge Hub, Kalyani Hills, Anjaneri-Wadholi, Trimbakeshwar Road, Nashik - 422 213. (India)  
Tel.: + 91- 2594 - 220168/69/70 | Mob.: +91 9922252699 | Toll Free No.: 1800 233 2999 | **E-mail :** gns\_engineering@sapkalknowledgehub.org
- **CORPORATE OFFICE :** Sapkal Knowledge Hub, 'Parag' 46, Ashwin Sector, Opp. Hotel Sai Palace, Mumbai-Agra Highway, Nashik - 422 009  
Tel : +91 - 253 - 2392450 / 61 | **E-mail :** head.marketing@sapkalknowledgehub.org | **Website :** www.sapkalknowledgehub.org
- **MUMBAI OFFICE :** Sapkal Knowledge Hub, Unit No. 22, 1<sup>st</sup> Floor, Shubhada Tower Shopping Centre, Sir Pochkhanwala Road, Near R.T.O Office, Worli, Mumbai - 400 030. Tel.: + 91 - 22 - 24938914 / 15 | **E-mail :** cmd@sapkalknowledgehub.org, ravi.sapkal@gmail.com

### **3. Late Gambhirrao Natuba Sapkal College of Engineering and Industry Standard of Performance:**

LGNSCOE shall expend reasonable efforts as follows:

- LGNSCOE shall provide training, lab visit permissions in such areas as may be mutually agreed between the parties, more particularly described in this agreement.
- LGNSCOE shall provide experts for the conduct of training at the LGNSCOE campus and or at the Industry premises.
- LGNSCOE shall provide certificates/completion letter to all students who have successfully completed the training, projects conducted at LGNSCOE or at the Industry premises.

### **4. Mutual Obligations:**

- Both the parties shall appoint one person as one point of contact for smooth execution of the MOU.
- This collaboration shall not be exclusive to both parties and shall not disallow each party from having similar collaboration with others. Except as expressly stated in this MOU, there shall be no obligation on any party to compensate the other in any manner or to make any claim.
- Each party shall respect the other's intellectual property
- Nothing contained in this MoU shall be construed as resulting in the creation of a relationship of both Principal of LGNSCOE and Management of Industry. LGNSCOE and Industry are not authorized to make any representation contract or commitment on behalf of Industry. LGNSCOE without the prior written consent of other party

### **Duration and Warranties:**

- Each party shall ensure that the other is not put to any liability for any act of the respective party under this MOU.
- Each party represents that they have full power and authority to enter into this MoU in general.

### **Commercials:**

- LGNSCOE & Industry will design programs on mutual understanding and decide fees if any to be charged to the students.
- The training. Lab visit shall be conducted at the LGNSCOE or Industry facility in a time bound manner as per availability and schedule of both parties

### **General:**

- Both the parties may receive information proprietary to other party (the "Confidential Information") in the course of performance of their obligations under this MoU. Confidential Information is not meant to include any information which (a) is publicly available (b) is rightfully received by the parties from third parties without



accompanying secrecy obligations; (c) is already in either party's possession and was lawfully received from sources other than the parties or (d) is independently developed by the parties. The two bodies understand and acknowledge that the Confidential Information is valuable and confidential and agrees that it will at all times be kept in trust, to be disclosed only to such persons as have a "need to know" the same for the effective implementation of this MOU and that it will only be used by the parties for the benefit of others.

- Both the parties understand and agree that all written or other tangible data and documentation developed or procured by the other party in performing its obligations under this MoU, whether in printed or electronic form, belongs to other party.
- Both parties shall not use the name and brand of the other party in any advertisement or make any public announcement without the prior written approval of the other.
- Each party shall be at liberty to terminate this MoU with a written notice period of one(1)month to the other party without any compensation.
- Any and all disputes or differences between LGNSCOE and Industry arising out of or in connection with this MoU or its performance shall, so far as it is possible, be settled by negotiations between the Parties amicably through consultation & understanding.

#### 8. Indemnification:

- Both the parties shall indemnify and hold each other harmless from and against any claim, loss, liability, or expense, including, but not limited to, damages, patent and trade mark infringement, costs
- In witness whereof, both parties put their hard seal on the day, month and year here in mentioned

**IN WITNESS WHEREOF**, to show their assent, the duly authorized representative of the parties hereto have signed the Agreement and set their seals as below:-

Signed for and on behalf of for  
Bhavin Wheels Pvt. Ltd.  
Plot No. E-12, Satpur MIDC, Pipeline Rd,  
In front of TDK Company, Nashik,  
Maharashtra 422007



Managing Director



Signed for and on behalf of for  
KCT's Late Gambhirao Natuba Sapkal  
College of Engineering, Anjaneri. Nashik



Prof. Dr. S. B. Bagal  
Principal

Prof.(Dr.) Sahebrao B. Bagal  
Principal

Late G. N. Sapkal College of Engineering  
Anjaneri Nashik-422 213







## Activity Report

Particulars	Description
Department	Mechanical Engineering
Activity	Industrial Visit
Activity level	College
Title	Computerized Wheel Balancing
Organized by	Prof. C. P. Shinde
Venue	Bhavin Wheels Pvt. Ltd. Plot No. E-12, Satpur MIDC, Pipeline Rd, In front of TDK Company, Nashik, Maharashtra 422007
Date	28/9/2024
Time	9.00 am to 4.00 pm
Objectives of the activity	Processes of wheel alignment and balancing, enhancing their understanding of automotive maintenance and engineering applications in real-world settings.
Outcomes of activity	<p>1. Enhanced Practical Knowledge: Students will gain hands-on experience and a deeper understanding of the wheel alignment and balancing process in automotive systems.</p> <p>2. Application of Theoretical Concepts: Students will learn how theoretical concepts related to vehicle dynamics, suspension systems, and tire wear are applied in real-world scenarios.</p> <p>3. Familiarity with Industrial Tools and Equipment: Students will get exposure to the specialized tools and machinery used for alignment and balancing in the automotive industry.</p>
Targeted Participants	BE-A students
Total no. of Participants & % of students	17 and 100%
Speaker / Resource Person	<p>1. Name: Mr. Ganesh Kadbhane</p> <p>2. Designation &amp; Organization: Session Head</p> <p>3. Mobile No.: 88888 20282</p>





Particulars	Description
Content of the activity	<p><b>1. Introduction to the Visit:</b></p> <ul style="list-style-type: none"> <li>Overview of the purpose of the visit.</li> <li>Importance of the visit for students in understanding the practical applications of theoretical knowledge.</li> </ul> <p><b>2. Explanation of Wheel Alignment:</b></p> <ul style="list-style-type: none"> <li>Definition and significance of wheel alignment in vehicle performance and safety.</li> <li>Types of alignment (Toe, Camber, Caster).</li> <li>Discussion on the impact of improper alignment (uneven tire wear, steering issues, etc.).</li> <li>Demonstration of alignment procedure using industrial equipment (alignment machine).</li> <li>Explanation of the computerized alignment process and its accuracy.</li> </ul> <p><b>3. Explanation of Wheel Balancing:</b></p> <ul style="list-style-type: none"> <li>Definition and importance of wheel balancing in vehicle dynamics.</li> <li>Types of wheel balancing (static and dynamic).</li> <li>Detailed demonstration of the wheel balancing process.</li> <li>Tools and machinery involved in balancing (balancing machine, weights, etc.).</li> <li>Effects of unbalanced wheels on driving performance and tire lifespan.</li> </ul> <p><b>4. Hands-On Demonstrations:</b></p> <ul style="list-style-type: none"> <li>Students observe technicians performing alignment and balancing.</li> <li>Explanation of key steps involved in both processes.</li> <li>Students may get an opportunity to interact with machinery under supervision.</li> </ul>
Relevance to POs	PO5, PO6, PO9, PO11, PO12
Relevance to PSOs	POS1
Methodology used	<ol style="list-style-type: none"> <li>Live Demonstration</li> <li>Observation Checklist</li> <li>Hands-On Participation, Notes and comments.</li> <li>Discussion</li> </ol>





Particulars	Description
Brief Description of the activity	<ol style="list-style-type: none"> <li>1. Introduction and Welcome: <ul style="list-style-type: none"> <li>- The visit began with a brief introduction to the automotive workshop and an overview of the day's activities.</li> <li>- Industry professionals welcomed the students and provided an introduction to the importance of wheel alignment and balancing in automotive maintenance.</li> </ul> </li> <li>2. Theoretical Overview: <ul style="list-style-type: none"> <li>- A detailed explanation was given about the fundamentals of wheel alignment (Toe, Camber, and Caster) and wheel balancing (static and dynamic).</li> <li>- The importance of maintaining proper alignment and balance for vehicle performance, safety, and tire life was discussed.</li> </ul> </li> <li>3. Live Demonstration of Wheel Alignment: <ul style="list-style-type: none"> <li>- Students observed the process of wheel alignment using advanced alignment machines.</li> <li>- The technician demonstrated how to check and adjust the alignment angles, ensuring all wheels are aligned correctly with respect to the vehicle's specifications.</li> </ul> </li> <li>4. Live Demonstration of Wheel Balancing: <ul style="list-style-type: none"> <li>- Students were shown how to balance wheels using balancing machines.</li> <li>- The technician explained the procedure for detecting and correcting imbalances by placing weights on the wheels.</li> </ul> </li> <li>5. Interaction with Industry Professionals: <ul style="list-style-type: none"> <li>- Students engaged in an interactive Q&amp;A session with technicians, where they discussed common issues related to wheel alignment and balancing, such as tire wear and vehicle handling problems.</li> </ul> </li> <li>6. Conclusion: <ul style="list-style-type: none"> <li>- The activity provided students with valuable industry exposure, bridging the gap between classroom learning and practical automotive applications.</li> <li>- Students gained a deeper understanding of the technical aspects and tools used in automotive wheel alignment and balancing, essential for their future roles as engineers.</li> </ul> </li> </ol>





Particulars	Description
Geo- tag photos of the activity	 <p><b>Saturday, September 28, 2024</b>  <b>10:05:46</b>          E-12 Satpur MIDC Main Road Satpur          Colony Nashik Division Maharashtra          20°01'N 73°74'E          554.6m Altitude</p>  <p><b>Bhavin Wheel</b>  <b>Saturday, September 28, 2024</b>  <b>10:39:39</b>          Satpur MIDC Main Road Satpur          Colony Nashik Division Maharashtra          20°00'N 73°74'E          560.8m Altitude</p>

*Shinde*

**Prof. C. P. Shinde**  
Coordinator / Prepared by

*Badgujar*

**Prof. (Dr.) T. Y. Badgujar**  
HoD

*Kolhe*

**Prof. (Dr.) V. A. Kolhe**  
IQAC coordinator

*Bagal*

**Prof. (Dr.) S. B. Bagal**  
Principal





Kalyanii Charitable Trust's

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Chairman & Managing Director  
Kalyanii Charitable Trust

**Dr. Sahebrao B. Bagal**  
M.E. (E & TC), Ph.D. (E & TC)  
Principal

Ref. No.: KCT/LGNSCOE/MECH/2024-25/

Date: 25 Sept 2024

To,  
**The Managing Director**  
**Bhavin Wheels Pvt. Ltd.**  
Plot No. E-12, Satpur MIDC, Pipeline Rd,  
In front of TDK Company, Nashik, Maharashtra 422007

**Subject:** Academic Visit to Final Year Students of Mechanical Engineering to Wheel Balancing.....

Dear Sir/Madam,

We would like to introduce ourself as one of the emerging institute in Nashik District. We are affiliated to Savitribai Phule Pune University and cater for five Bachelor's degrees in Engineering, viz. Bachelor in Civil Engineering, Computer Engineering, Electronics & Telecommunications, Electrical Engineering and Mechanical Engineering.

As a part of syllabus, the students of **Final Year Mechanical Engineering** are required to visit industry to gain the Practical knowledge of wheel balancing and alignment. We would really appreciate if you could permit our students to visit your plant and gain practical insights of the unit and its related parameters.

The students are 20 in number and will be accompanied 1 faculty members to maintain discipline and safety. We need permission for *One day* so that 20 students along with two faculty members can visit on day. Kindly allot the dates of visit in between **27<sup>th</sup> September, 2024 to 29<sup>th</sup> Octo, 2024** as per your convenience. We do humble request you to consider our proposal and sanction permission to our students to visit your prestigious project.

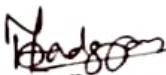
**Details of Visit Coordinator** is as follows:

Name: Prof. C. P. Shinde, (Mob. No: +919011967413)

E-mail ID: [chetan.shinde@sapkalknowledgehub.org](mailto:chetan.shinde@sapkalknowledgehub.org)

Thanking you

Yours truly,

  
**Prof. Dr. T. Y. Badgujar**  
HOD (Mechanical)



**Prof. Dr. S. B. Bagal**  
Principal

- CAMPUS :** Sapkal Knowledge Hub, Kalyanii Hills, Anjaneri-Wadholi, Trimbakeshwar Road, Nashik - 422 213. (India)  
Tel. + 91- 2594 - 220168/69/70 | Mob.: +91 9922252699 | Toll Free No.: 1800 233 2999 | **E-mail :** [gns\\_engineering@sapkalknowledgehub.org](mailto:gns_engineering@sapkalknowledgehub.org)
- CORPORATE OFFICE :** Sapkal Knowledge Hub, 'Parag' 46, Ashwin Sector, Opp. Hotel Sai Palace, Mumbai-Agra Highway, Nashik - 422 009  
Tel. +91 - 253 - 2392450 / 51 | **E-mail :** [head.marketing@sapkalknowledgehub.org](mailto:head.marketing@sapkalknowledgehub.org) | **Website :** [www.sapkalknowledgehub.org](http://www.sapkalknowledgehub.org)
- MUMBAI OFFICE :** Sapkal Knowledge Hub, Unit No. 22, 1<sup>st</sup> Floor, Shubhada Tower Shopping Centre, Sir Pochkhanwala Road, Near R T O Office, Worli, Mumbai - 400 030 Tel. : + 91 - 22 - 24938914 / 15 | **E-mail :** [cmd@sapkalknowledgehub.org](mailto:cmd@sapkalknowledgehub.org), [ravi.sapkal@gmail.com](mailto:ravi.sapkal@gmail.com)

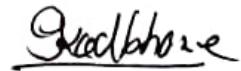


## Conduction Certificate

This is to certify that the 02 faculty member and 100 Students of Late G. N. Sapkal College of Engineering have visited our industry on 28<sup>th</sup> September 2024, (Saturday). The purpose of visit is to learn Details about the Industry/Process Plant.

Operational description of the Equipment with specification, its use, capacity, application etc. along with wheel balancing and alignment process.

This visit is planned as per academic curriculum of the subject Dynamics of Machinery. Students learn the working and exposure of Balancing, which is explained by our expert during the visit. The behavior of students was good during visit.



Bhavin Wheels Pvt. Ltd.  
Plot No. E-12, Satpur MIDC, Pipeline Rd,  
In front of TDK Company, Nashik, Maharashtra 422007



## Attendance Sheet

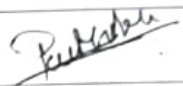



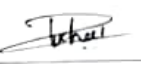
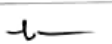
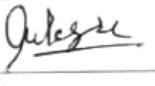

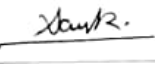



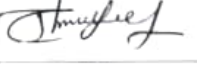

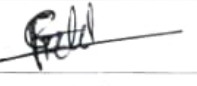


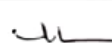
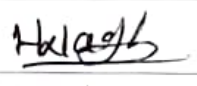
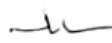
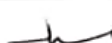
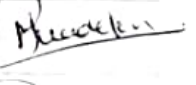
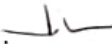
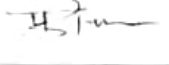
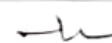
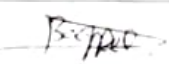

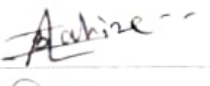

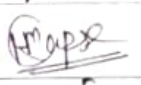

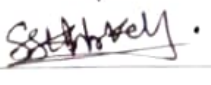
Activity Title: Computerized Wheel Balancing

Date: 28/9/2024

Department: Mechanical Engineering

Venue: Bhavin Wheels Pvt. Ltd

### Attendees

Sr. No.	Name	Department	Sign.
1.	AHIRE PARTH PARAG	Mech	
2.	ATTAR FARHAN RAFIK		
3.	BARVE VEDIKA SUNIL		
4.	GADE OMKAR JALINDAR		
5.	KHAN SARIK SHAMSHAD		
6.	MAINIKAR PAURAS NILESH		
7.	PANGAVHANE DHANANJAY PANDITRAO		
8.	PATEL MOHAMMAD GAUS SAMEER		
9.	SONAWANE MAYUR ABAJI		
10.	WAGH HEMRAJ VASANT		
11.	LANDAGE KRUSHNA SURESH N.		
12.	WADEKAR HARSHAD SURESH		
13.	PARDHI AMARNATH EKNATH		
14.	DASPUTE PRASAD BHASKAR		
15.	AHIRE ABHISHEK BABULAL		
16.	KAPSE KALYANI MAHENDRA		
17.	KHIRKADE SANKET SUDAM		



**Kalyani Charitable Trust, Late Gambhirrao Natuba Sapkal College of  
Engineering, Anjaneri, Trimbakeshwar Road, Nashik**

**Feedback Analysis**

Title : Industrial Visit DOM

Academic Year : 2024-25

Class : Seventh Semester BE A [ Mechanical Engineering ]

Details : Activity

Total number of response(s) : 17 / 17

**Question**

1. To what extent do you use modern tools and technologies in the wheel alignment process?

2. How well does your wheel alignment process contribute to vehicle safety and societal concerns?

3. How effectively do you work in a team to handle complex wheel alignment issues?

How effectively do you manage the alignment process in terms of time, resources, and cost?

How frequently do you update your knowledge and skills in the field of wheel alignment and balancing?

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	3	2	3	2	3	1	3	2	2	3	3	2	1	3	1	3
2	3	2	3	3	2	1	3	3	3	3	3	2	1	3	2	3
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3	2	2	3	2	3	2	3	1	3	3	3	1	2	2	2	3

