



**MEMORANDUM OF UNDERSTANDING**

This Memorandum of Understanding entered into on 24-05-2018 at Belgaum, between the Hirasugar Institute of Technology, Nidasoshi, an Institution imparting and offering four year B.E degree courses in the discipline of i) Computer Science & Engineering ii) Mechanical Engineering iii) Electrical and Electronics Engineering iv) Electronics and Communication Engineering., under Visvesvaraya Technological University (VTU) Belgaum, Karnataka & is approved by AICTE New-Delhi, Hereinafter referred to as "**HIT Nidasoshi**" located at Nidasoshi - 591 236, in this MOU, represented by Dr. S. C. Kamate, Principal and Dr. B. M. Shrigiri, Prof. & HOD (Mech Engg.) of the Institute which expression shall unless repugnant to the context means and include its successors and assignees of the **ONE PART**.

RAJEEV & COMPANY functioning at 103/3 Devarwadi Tal: Chandgad, Dist: Kolhapur, Maharashtra since 22 years, currently focusing on export/manufacturing/supply and trading company is represented herein by Rajeev Rao, Partner, hereinafter referred to as Rajeev & Company, which expression shall unless repugnant to the context mean and include its successors and assignees of the **OTHER PART**.

**WHEREAS**

The **HIT Nidasoshi** has initiated to promote Industry Institute Interaction to conduct various Industries/Job oriented training

Office : 423, Nazar Camp Cr 3, Main Road, Vadgaon, Belgaum - 590005, Karnataka, India  
Factory - 103/3 Dewarwadi Village, Chandgad Taluk, Kolhapur Dist., Maharashtra 416507  
Phone : 0831-2482327, 2484635 Fax : 0831-2481752, email : sales@kavaatavalves.com

*Rao*

*Co*

*1/1*

# RAJEEV

& Company

*An ISO 9001:2000 company*



programmes/placements to the students, Mutual sharing of resource persons and students for advanced/innovative/future technologies/research activities as well as industries technical related problems and to know industry work-culture/updates along with the regular academic work.

The parties have had preliminary discussions in this matter and have ascertained areas of broad consensus. The parties now, have therefore, agreed to enter in writing these areas of consensus, under a Memorandum of Understanding.

Now this Memorandum of Understanding witnesses that:

The parties have following areas of consensus for mutual benefits.

- 1) **Human Resource Sharing:** Visiting HIT Nidasoshi sponsored course lectures/seminars/workshops/conferences related to new trends/updates in industry by Rajeev & Company representatives as a visiting faculty/participant and to suggest new ideas to reduce technological gap between Rajeev & Company and HIT Nidasoshi. Similarly attending Rajeev & Company organized training/workshop/conference by HIT Nidasoshi faculty/students to upgrade/understand the industrial requirements and to implement the same in the regular academic activities through conducting industry need based trainings/talks.
- 2) **Industry Visit:** Providing an opportunity to the HIT Nidasoshi student community to understand/monitor the live functioning of the Rajeev & Company to ignite/create new ideas in the HIT Nidasoshi students' minds' by demonstrating Rajeev & Company resource persons.

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- 3) **Internship/Training:** Inclusion of HIT Nidasoshi student community in the internships/trainings conducted by Rajeev & Company on regular basis during HIT Nidasoshi students' vacation/holidays to get industry experience and to study the academic subjects/labs/projects in the style of industries requirements.
- 4) **Solving Industries Technical problems:** Identification and accounting of the Rajeev & Company technological problems by Rajeev & Company /HIT Nidasoshi faculty/students and providing solutions in stipulated time as a project work by HIT Nidasoshi faculty/student community.
- 5) **Recruitments:** Intimating vacancies with numbers required, eligibility criteria, designation and abilities required for the post by Rajeev & Company and facilitating best suitable candidates by HIT Nidasoshi to the interview/selection process by comprehensively preparing candidates according to the need of the Rajeev & Company. The HIT Nidasoshi cordially invites Rajeev & Company for in campus selection process or make all arrangements to send HIT students to Rajeev & Company said place for the selection process.

#### **Responsibilities of the HIT Nidasoshi**

- Conduct/host/sponsor workshops/seminars in the HIT Nidasoshi.
- Facilitate quality Faculty/students to the Rajeev & Company for above said process/events.

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- Providing hospitality/logistics to the Rajeev & Company resource persons for workshops/seminars/recruitment process by HIT Nidasoshi.
- Taking all precautionary actions for industrial visit by the HIT Nidasoshi students.

Both parties here mutually understand the above said areas of consensus in the view of mutual benefits.

For Hirasugar Institute of Technology Nidasoshi

1) Sign with name & seal

  
(Dr. S. C. Kamate)  
PRINCIPAL  
Hirasugar Institute of Technology  
NIDASOSHI.

2) Sign with name & seal

  
(Dr. B. M. Shrigiri)  
Dr. B. M. Shrigiri  
Prof. & HOD (Mech. Engg.)  
Mechanical Engineering Dept.

For Rajeev & Company

Sign with name & seal

  
(name of the signer)  
Designation  
RAJEEV RAO  
PARTNER

Office : 423, Nazar Camp Cr 3, Main Road, Vadgaon, Belgaum – 590005, Karnataka, India  
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Phone : 0831-2482327, 2484635 Fax : 0831-2481752, email : sales@kavaatavalves.com







S J P N Trust's

**Hirasugar Institute of Technology, Nidasoshi**

Approved by AICTE, Recognized by Govt. of Karnataka and Affiliated to VTU Belagavi.

Accredited at 'A' Grade by NAAC

Programmes Accredited by NBA: CSE, ECE, EEE &amp; ME.

Mech. Engg. Dept.

AIMSS

Activity Report

AY:2021-22

**Activity Report**

| S.No.      | Title of the information  | Information in brief   |                     |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
|------------|---|--|---------------------|-----------------------------|--------------------|---------------------|------|---|------|-------|------|---|------|-------|------|---|------|-------|-----|---|------|-------|-----|---|------|-------|-----|---|------|-------|-----|---|------|-------|-----|---|------|-------|-----|---|------|-------|------|---|------|-------|------|---|------|-------|------|---|------|-------|
| 1          | Identified Gap No/s.:   | 14   |                     |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| 2          | Activity Type:  | Industry Visit   |                     |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| 3          | Activity/Event Organizer/s or Coordinator/s:                            | Dr. S. N. Topannavar, Professor and HOD, Mechanical Engineering Department, HIT Nidasoshi  |                     |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| 4          | Title of the Activity/Event:  | Industry Visit at Rajeev & Rao Company, Belagavi   |                     |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| 5          | Date:   | 04-06- 2022  |                     |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| 6          | Venue:  | Belagavi, Karnataka  |                     |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| 7          | Objectives:   | <ol style="list-style-type: none"> <li>To understand the working principles of ball valves, cutting tools, and industrial valves.</li> <li>To understand valves, face cutters, and valve fittings.</li> <li>To understand layouts of industry.</li> <li>To Understand the manufacturing of valves by using CNC machines</li> <li>To understand the importance of valve selection in the mechanical engineering domain.</li> </ol>  |                     |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| 8          | Activity Outcomes:  | <ol style="list-style-type: none"> <li>Proper valve selection is critical for the ideal operation of any system. Improper valve selection can cause system underperformance or failure. The greatest problem when selecting valves is incorrect information.</li> <li>Application of valves such as starting or stopping the flow, regulating or throttling flow, preventing backflow, or relieving and regulating pressure in fluid or gaseous handling applications.</li> </ol>  |                     |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| 9          | Details of Resource Person/s with contact details:                      | Mr. N. B. Rajeev Rao, Managing Director, Rajeev & Rao Company, Belagavi  |                     |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| 10         | Finance Management:   | Expenses incurred by the Department Association (AIMSS)  |                     |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| 11         | No. of participants   | Students: Boys: 41 & Girls : 02, Staff: 03   |                     |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| 12         | Mapped POs, Weight-age assigned & %age of attainment: PO (Weight-age)   | <table border="1"> <thead> <tr> <th>PO mapped</th> <th>Weight-age assigned (1/2/3)</th> <th>%age of Attainment</th> <th>Level of attainment</th> </tr> </thead> <tbody> <tr><td>PO1</td><td>3</td><td>99.6</td><td>2.988</td></tr> <tr><td>PO2</td><td>3</td><td>99.6</td><td>2.988</td></tr> <tr><td>PO3</td><td>3</td><td>99.6</td><td>2.988</td></tr> <tr><td>PO4</td><td>3</td><td>99.6</td><td>2.988</td></tr> <tr><td>PO5</td><td>3</td><td>99.6</td><td>2.988</td></tr> <tr><td>PO6</td><td>3</td><td>99.6</td><td>2.988</td></tr> <tr><td>PO7</td><td>3</td><td>99.6</td><td>2.988</td></tr> <tr><td>PO8</td><td>3</td><td>99.6</td><td>2.988</td></tr> <tr><td>PO9</td><td>3</td><td>99.6</td><td>2.988</td></tr> <tr><td>PO10</td><td>3</td><td>99.6</td><td>2.988</td></tr> <tr><td>PO11</td><td>3</td><td>99.6</td><td>2.988</td></tr> <tr><td>PO12</td><td>3</td><td>99.6</td><td>2.988</td></tr> </tbody> </table> | PO mapped           | Weight-age assigned (1/2/3) | %age of Attainment | Level of attainment | PO1  | 3 | 99.6 | 2.988 | PO2  | 3 | 99.6 | 2.988 | PO3  | 3 | 99.6 | 2.988 | PO4 | 3 | 99.6 | 2.988 | PO5 | 3 | 99.6 | 2.988 | PO6 | 3 | 99.6 | 2.988 | PO7 | 3 | 99.6 | 2.988 | PO8 | 3 | 99.6 | 2.988 | PO9 | 3 | 99.6 | 2.988 | PO10 | 3 | 99.6 | 2.988 | PO11 | 3 | 99.6 | 2.988 | PO12 | 3 | 99.6 | 2.988 |
| PO mapped  | Weight-age assigned (1/2/3)   | %age of Attainment   | Level of attainment |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PO1        | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PO2        | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PO3        | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PO4        | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PO5        | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PO6        | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PO7        | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PO8        | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PO9        | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PO10       | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PO11       | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PO12       | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| 13         | Mapped PSOs, Weight-age assigned & %age of attainment: PSO (Weight-age) | <table border="1"> <thead> <tr> <th>PSO mapped</th> <th>Weight-age assigned (1/2/3)</th> <th>%age of Attainment</th> <th>Level of attainment</th> </tr> </thead> <tbody> <tr><td>PSO1</td><td>3</td><td>99.6</td><td>2.988</td></tr> <tr><td>PSO2</td><td>3</td><td>99.6</td><td>2.988</td></tr> <tr><td>PSO3</td><td>3</td><td>99.6</td><td>2.988</td></tr> </tbody> </table>   | PSO mapped          | Weight-age assigned (1/2/3) | %age of Attainment | Level of attainment | PSO1 | 3 | 99.6 | 2.988 | PSO2 | 3 | 99.6 | 2.988 | PSO3 | 3 | 99.6 | 2.988 |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PSO mapped | Weight-age assigned (1/2/3)   | %age of Attainment   | Level of attainment |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PSO1       | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PSO2       | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |
| PSO3       | 3   | 99.6   | 2.988               |                             |                    |                     |      |   |      |       |      |   |      |       |      |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |     |   |      |       |      |   |      |       |      |   |      |       |      |   |      |       |



|    |                                    |  |
|----|------------------------------------|--|
| 14 | Outcomes achieved/Impact analysis: | <ol style="list-style-type: none"> <li>1. The activity mapped with PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, and PO11 &amp; PO12 was found satisfactory with an attainment level of 2.988 each against the Mapped values during the impact analysis.</li> <li>2. The activity mapped with PSO1, PSO2 &amp; PSO3 was found satisfactory with an attainment level of 2.988 each against the Mapped value during the impact analysis.</li> </ol> |
|----|------------------------------------|--|

### Photo Gallery



Mr. Rajeev Rao, Entrepreneur, Rajeev & Rao Company, Belagavi is delivering about working of valves during industry visit held on 4<sup>th</sup> June 2022.

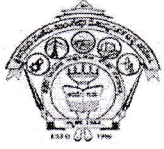


Staff and students attended an industry visit at Rajeev & Rao Company, Belagavi held on 4<sup>th</sup> June 2022

*[Signature]*  
 Mr. Vivekanand Kambi  
 AIMSS Secretary

*[Signature]*  
 Prof. M. M. Shivashimpi & Prof. D. N. Inamdar  
 AIMSS-Coordinator/s

*[Signature]*  
 Dr. S. N. Topannavar  
 HOD



S J P N Trust's  
Hirasugar Institute of Technology, Nidasoshi.  
*Inculcating Values, Promoting Prosperity*  
Approved by AICTE, Recognized by Govt. of Karnataka and Affiliated to VTU  
Belagavi.  
Accredited at 'A' Grade by NAAC  
Programmes Accredited by NBA: CSE, ECE, EEE & ME

Mech.Engg.Dept

Industrial Visit

Permission letter

2021-22 (Even Sem)

Date: 28-05-2022

To,

The Principal,

HSIT, Nidasoshi

FWD Through: HOD, Mechanical Engineering Department.

Respected sir,

Subject: Seeking permission for Industrial visits during 1<sup>st</sup> to 4<sup>th</sup> June 2022 reg.

We the students of 8<sup>th</sup> Semester Mechanical Engineering Department are interested to visit the industries, Divgi Industries Private Limited, Banavasi Road, Sirsi and Rajeev & Company, Belagavi during 1<sup>st</sup> to 4<sup>th</sup> June 2022. So, we kindly request you to permit us for the same. We enclosed the duly signed list of students & staff and industries e-permission letters.

We hope you will do the needful.

Thanking you sir,

Yours faithfully

*Arun*

Mr. Arun Tubachi  
Student Coordinator

*Forwarded for permission*  
*[Signature]*  
*28/05/2022*

Place: Nidasoshi

Date: 28-05-2022

*Permitted*  
*[Signature]*  
*28/5*



PRINCIPAL  
Hirasugar Institute of Technology  
Nidasoshi- 591 236



M.M. Shivashimpi <mmshivashimpi.mech@hsit.ac.in>

## Permission to visit industry on 4th June 2022

2 messages

M.M. Shivashimpi <mmshivashimpi.mech@hsit.ac.in>

Sat, May 21, 2022 at 4:25 PM

To: rajeev@kavaatavalves.com

Cc: HOD MECH <hod.mech@hsit.ac.in>, vijayalaxmibugadi@gmail.com, vivekanandakambi@gmail.com

Dear sir,

With reference to the telephonic conversation with Dr. S.N. Topannavar, Professor & HOD, Mechanical Engineering Department, Hirasugar Institute of Technology, Nidasoshi.

As per Academic Curriculum of VTU, Belagavi, I am hereby seeking permission to visit your esteemed industry for final year students on 4<sup>th</sup> June 2022 at 04.00 PM. So I kindly request you to permit us to visit your industry and details of staff and students attached herewith.

With Regards...

**Dr. M. M. Shivashimpi** M.Tech., Ph.D.

Assistant Professor

Event Coordinator

Mechanical Engineering Department

Hirasugar Institute of Technology

Nidasoshi-591236, Karnataka, India

Cell: 9742197173, Mail: [mmshivashimpi.mech@hsit.ac.in](mailto:mmshivashimpi.mech@hsit.ac.in)

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Phone: +91-8333-278887, Fax: 278886



Staff and Student List @ Belagavi.pdf  
764K

rajeev@kavaatavalves.com <rajeev@kavaatavalves.com>

Fri, May 27, 2022 at 9:09 AM

To: "M.M. Shivashimpi" <mmshivashimpi.mech@hsit.ac.in>

Cc: HOD MECH <hod.mech@hsit.ac.in>, "vijayalaxmibugadi@gmail.com" <vijayalaxmibugadi@gmail.com>, "vivekanandakambi@gmail.com" <vivekanandakambi@gmail.com>

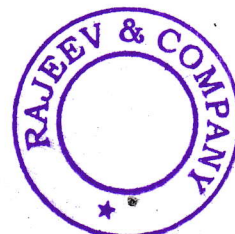
Respected Sir,  
Thank you for your mail.

We hereby welcome your students and faculty members accompanying them to visit our facility on 4th of June 2022 at 4 p.m

Best Regards

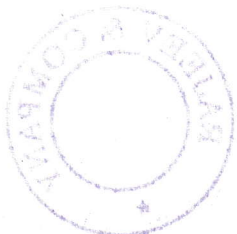
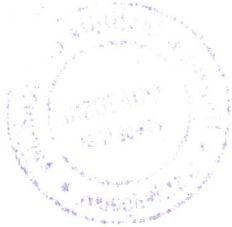
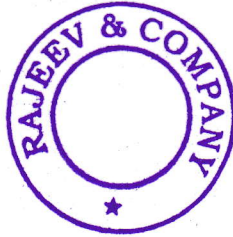
Rajeev Rao

**Rajeev and Company**



(Manufacturers of Kavaata Valves)  
423, Nazar Camp Cross 3,  
Main Road, Vadgaon, Belgaum - 590005, INDIA  
website : [www.kavaatavalves.com](http://www.kavaatavalves.com)  
Phone : ++91-831-2482327 / 2484635  
Fax : ++91-831-2481752  
Mobile : ++91-9243222573 / 9243220173

[Quoted text hidden]



## UNDERTAKING

I the undersigned Mr/Ms. Arun. C. Tubache.....studying in 8<sup>th</sup> Semester, Mechanical Engineering Branch of Hirasugar Institute of Technology, Nidasoshi, interested to participate in industry Visits of Divgi Industries Private Limited, Banavasi road Sirsi and Rajeev and Company, Belagavi on 04/06/2022. I will obey the respective rules, regulations of the Institute and company and spot instructions given by the concerned authority during the visit without fail. I have undergone Medical checkup and fit to participate in Industry Visit. If anything happens wrong with me during the journey, I only responsible. The institute or the faculty of the institute is not responsible for any kind of damage or accidents or uneven things happen with me. I will not claim any kind of damages from institute. I have taken prior permission from my parents to participate in the above said event.

|                    |   |                 |                   |
|--------------------|---|-----------------|-------------------|
| Name:              | <u>Arun. C. Tubache</u>                             | USN:            | <u>2HN19ME402</u> |
| Mob. No:           | <u>7022510677</u>                                   | Parent Mob. No: | <u>8722688863</u> |
| Permanent Address: | <u>At: p:- Borgal. Tq:- Hukkeri Dist:- Belagavi</u> |                 |                   |

Arun. 27/05/22  
Students Signature with Date

## UNDERTAKING

I the undersigned Mr/Ms. Vivekananda. C. Kambi.....studying in 8<sup>th</sup> Semester, Mechanical Engineering Branch of Hirasugar Institute of Technology, Nidasoshi, interested to participate in industry Visits of Divgi Industries Private Limited, Banavasi road Sirsi and Rajeev and Company, Belagavi on 04/06/2022. I will obey the respective rules, regulations of the Institute and company and spot instructions given by the concerned authority during the visit without fail. I have undergone Medical checkup and fit to participate in Industry Visit. If anything happens wrong with me during the journey, I only responsible. The institute or the faculty of the institute is not responsible for any kind of damage or accidents or uneven things happen with me. I will not claim any kind of damages from institute. I have taken prior permission from my parents to participate in the above said event.

|                    |  |                 |                   |
|--------------------|--|-----------------|-------------------|
| Name:              | <u>Vivekananda. C. Kambi</u>                                     | USN:            | <u>2HN18ME048</u> |
| Mob. No:           | <u>7406124053</u>  | Parent Mob. No: | <u>8867878810</u> |
| Permanent Address: | <u>At: p: Mamadapur Tq: Golak Dist: Belagavi Pincode: 591233</u> |                 |                   |

Vivekananda. 27/05/22  
Students Signature with Date



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**Programmes Accredited by NBA: CSE, ECE, EEE & ME**

**Mech.Engg.Dept**

**Industry Visit**

**STUDENT LIST**

**2021-22 (EvenSem)**

**Staff & Student List for Industrial Visit @ Rajeev and Company, Belagavi**

**Sem:VIII**

**Total: 49 Students**

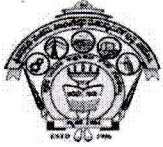
| R.No | STUDENT NAME            | USN        | Contact No. | e-mail ID                      | Sign |
|------|-------------------------|------------|-------------|--------------------------------|------|
| 1    | Aditya Kalbhar          | 2HN18ME003 | 9071838805  | adi2000km@gmail.com            |      |
| 2    | Akash Bahubali Upadhye  | 2HN18ME006 | 9148696516  | akashupadhye147@gmail.com      |      |
| 3    | Arun Kolapur            | 2HN18ME009 | 9686816387  | arunkoulapur99@gmail.com       |      |
| 4    | Arun Nagappa Chougule   | 2HN18ME010 | 8152838821  | Arunchougule0143@gmail.com     |      |
| 5    | Babasabh Bagashahi      | 2HN18ME011 | 8310393040  | babasabbag@gmail.com           |      |
| 6    | Hanamanth Pujeri        | 2HN18ME012 | 6363129574  | pujerihanamant99@gmail.com     |      |
| 7    | Hasansab S Yaragatti    | 2HN18ME013 | 9380648988  | hasanyaragatti190@gmail.com    |      |
| 8    | Madan Mahantesh Rayar   | 2HN18ME014 | 8197904886  | madanrayar143@gmail.com        |      |
| 9    | Maibub I Mulla          | 2HN18ME015 | 9591718442  | maibubmulla2000@gmail.com      |      |
| 10   | Nandish L Vibhuti       | 2HN18ME018 | 7204451583  | nandishvibhuti87591@gmail.com  |      |
| 11   | Naveenkumar Ganachari   | 2HN18ME019 | 8971791429  | Kumarnaveen201489@gmail.com    |      |
| 12   | Nikhil Nandigon         | 2HN18ME020 | 8884943021  | nikhilnandigon210@gmail.com    |      |
| 13   | Nikhil Shettennavar     | 2HN18ME021 | 7996168131  | nikhilus131@gmail.com          |      |
| 14   | Prashant Madiwal        | 2HN18ME024 | 9611397983  | prashantmadi9@gmail.com        |      |
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| 16   | Praveen S Chougale      | 2HN18ME026 | 7019482475  | praveenchougale2020@gmail.com  |      |
| 17   | Ravi Magadum            | 2HN18ME032 | 9901792724  | ravimagadum77@gmail.com        |      |
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| 19   | Satyappa Karoshi        | 2HN18ME034 | 7259918470  | satyappakaroshi@gmail.com      |      |
| 20   | Shashidhar S Mastiholi  | 2HN18ME035 | 9743363321  | shashimastiholi@gmail.com      |      |
| 21   | Shivaprasad Ammanagi    | 2HN18ME036 | 7022403970  | shivaprasadammanagi@gmail.com  |      |
| 22   | Shridhar B.Mudigoud     | 2HN18ME037 | 8105443562  | shridharmudigoud1198@gmail.com |      |
| 23   | Siddappa Karagar        | 2HN18ME038 | 9380657190  | sksiddu121@gmail.com           |      |
| 24   | Sumitra P Shinde        | 2HN18ME041 | 8722424397  | Sumitrashinde03@gmail.com      |      |
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| 27   | Vikas Ramachandra Khot  | 2HN18ME044 | 7406608507  | vikaskhot07@gmail.com          |      |
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| 30   | Vrushabh A Mugganavar   | 2HN18ME049 | 6362788240  | vrushabh5530@gmail.com         |      |
| 31   | Akshay Badakundri       | 2HN19ME400 | 8152922466  | bhadakundriakshay789@gmail.com |      |
| 32   | Amar Chidanand Sangote  | 2HN19ME401 | 9071417721  | acsangote@gmail.com            |      |
| 33   | Arun C Tubachi          | 2HN19ME402 | 7892906462  | aruntubachi1998@gmail.com      |      |
| 34   | Devendra Chougule       | 2HN19ME404 | 9986259617  | bharatesh121@gmail.com         |      |
| 35   | Dundanagouda Patil      | 2HN19ME405 | 7795947407  | patildundangouda@gmail.com     |      |
| 36   | Mahantesh G Hiremath    | 2HN19ME407 | 7026797668  | mahantesh20gh@gmail.com        |      |
| 37   | Shravan S Kurani        | 2HN19ME409 | 9611098640  | Shravankurani8640@gmail.com    |      |
| 38   | Vijayalaxmi B Bugadi    | 2HN19ME412 | 9591160930  | vijayalaxmibugadi@gmail.com    |      |
| 39   | Akshay Boragalli        | 2HN19ME413 | 8748086016  | boragalliakshay@gmail.com      |      |
| 40   | Sourabh Mole            | 2HN19ME411 | 8749021245  | sourabhmole1452@gmail.com      |      |
| 41   | Vinod Soorannavar       | 2HN18ME046 | 7406010278  | vinodsoorannavar6841@gmail.com |      |
| 42   | Rahul Mudalagi          | 2HN18ME028 | 9902731051  | rahulmudalagi@gmail.com        |      |
| 43   | Arun Kumar S. Halagatti | 2HN19ME408 | 7019380792  | arunhalagatti1999@gmail.com    |      |

**Staff Members**

01. Dr. M.M. Shivashimpi
02. Prof. M.S. Futane
03. Prof. M.A. Hipparagi



**HOD**  
**Mechanical Engg.**  
**HIT, Nidasoshi**



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Mech.Engg.Dept

Industrial Visit

Physical Fitness  
Certificate

2021-22 (Even Sem)

## Physical Fitness Certificate

This is certified that, the following students are physical fit to attend the industry visit at Rajeev and Company, Belagavi on 4<sup>th</sup> June 2022.

Sem: VIII

| R.No | STUDENT NAME            | USN        | Contact No. | e-mail ID                      |
|------|-------------------------|------------|-------------|--------------------------------|
| 1    | Aditya Kalbhar          | 2HN18ME003 | 9071838805  | adi2000km@gmail.com            |
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| 43   | Arun Kumar S. Halogatti | 2HN19ME403 | 7019380722  | arunhalogatti1999@gmail.com    |

*[Signature]*



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Mech. Engg. Dept.

Academic

Industry Visit  
Report

AY:2021-22

# Report on Industry Visit to Rajeev & Rao Company, Belagavi

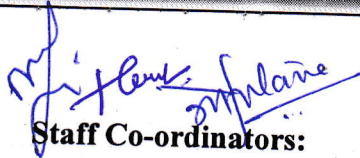
Date: 4<sup>th</sup> June 2022



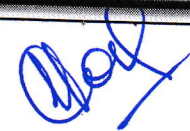
**Student Co-ordinators:**

1. Mr. Babsabh Bagashahi
2. Miss. Vijayalaxmi B Bugadi



**Staff Co-ordinators:**

1. Dr. M.M. Shivashimpi
2. Prof. M.A. Hipparagi
3. Pro. M.S. Futane



**Dr. S. N. Topannavar**  
HOD  
Mechanical Engg.  
HIT, Nidasoshi



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Mech. Engg. Dept.

Academic

Industry Visit  
Report

AY:2021-22

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| SI. No | TOPIC                                     | Page. No. |
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| 1      | About Rajeev and Rao Company              | 1         |
| 2      | The Details of the Visit                  | 1         |
| 3      | Valves Manufactured in Rajeev and Company | 2         |
| 4      | Machines in Rajeev and Company            | 3         |
| 5      | Conclusions                               | 3         |
| 6      | Industry Visit Photo Gallery              | 4         |



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Academic

Industry Visit  
Report

AY:2021-22

### 1. About Rajeev and Rao Company:

Rajeev and Company are manufacturing and exporting of Ball Valves under the brand name KAVAATA VALVES with head office at Belgaum Karnataka. We are an ISO 9001:2008 company and renowned for high quality high precision low torque ball valves. Incepted in the year 1996 Rajeev & Company is an ISO 9001:2008 certified company engaged in manufacturing and exporting finest quality of Ball Valves to the market under the brand name KAVAATA VALVES. Our offered products consists of Three Way Ball Valves Flanged End Ball Valve Forged Steel Ball Valve Screwed End Ball Valve High Pressure Ball Valve Metal Seated Ball Valves Fire Safe Ball Valve and Cutting Tools. We also offer Special Purpose Ball Valves such as Ball Valve With Male Adapter Flange End Ball Valve With Limit Switch Peep Hole Ball Valve for Blast Furnace Cavity Filler Ball Valves Electropolished Ball Valves and Low Pressure Cut-Off Ball Valve.

### 2. The Details of the visit

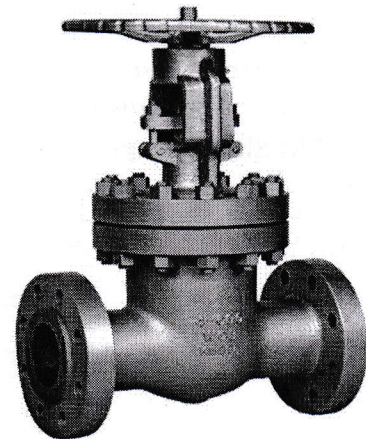
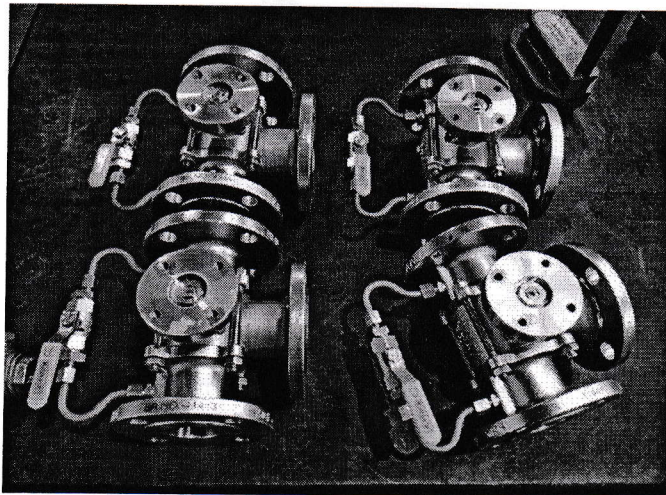
The Department of Mechanical Engineering, HSIT college of engineering organized a one day. Industrial Visit to "Rajeev and Company", Belgaum, on 4<sup>th</sup> June 2022 for Final year students. The visit was organized with the prior permission and guidance of Dr.M.M.Shivashimpi. A total of 41 students along with 3 faculty members have joined the visit.

- We Reached Rajeev and Company by 3:45 pm on 4<sup>th</sup> June 2022
- At 4.00 p.m. We are welcomed by the Mr. Rajeev sir, from Rajeev and Company. He gave instructions before visiting the company. He also had given oral explanation about the ACE Designers solution company overview. Which makes the students to know about the company. And also he explained what kinds of materials are used by them, and what are the process will they will do during manufacturing the valves.
- At 4.15 p.m. We visited the Rajeev and Company. Where we got information about the following technology:
  - Machine validation & testing for CNC Turning machines product range.+
  - CNC technology.
  - Products Manufactured in the company.
  - Showed all the machines which are used to manufacture the valves.



- At 4.45 p.m. We visited the shop floor with the engineer Mr. Rajeev sir. At each layout we got about the explanation of the each part which is to be installed in the lathe.
- After words they explained about their some projects.
- At 5.00 p.m they showed some ordered valves and how the actual process will be there after getting order from different countries like Abu Dhabi, Qatar, England, USA, Turkey etc
- Finally at the end of the session at 6.00 p.m.
- Our faculty Dr. M. M. Shivashimpi on behalf of HSIT college of Engineering, has given a vote of thanks for the Rajeev and Company, for giving a great opportunity to visit the plant.

### 3. Valves Manufactured in Rajeev and Company





#### 4. Machines in Rajeev and Company

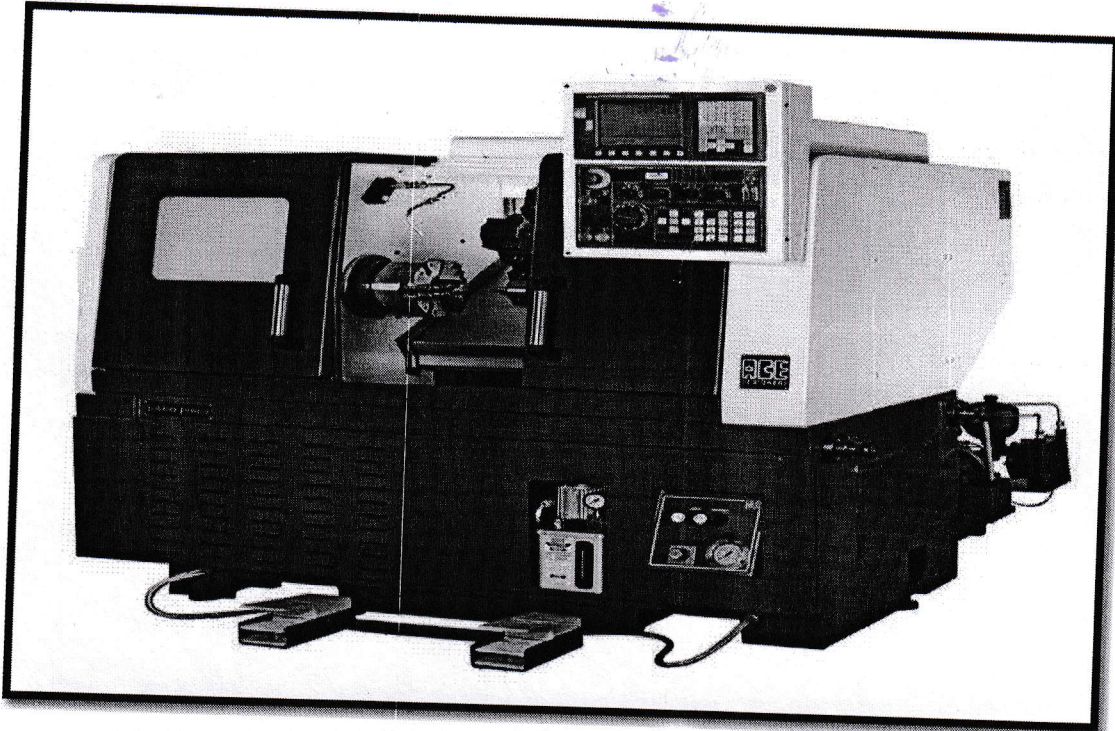


Figure 4.1 CNC Machine used to machining the valve components

#### 5. Conclusions

It manages direction or controls the flow of a fluid or gas by opening and closing of various passageways. Valves play a vital role in most of the industries involving pipelines or other applications. Some of the common industries having valves are oil, gas, petrochemicals, marine industry, and many more. Hence students get exposure to various types of valves which help them to develop technical skills about working principles and application of valves.



## 6. Industry Visit Photo Gallery



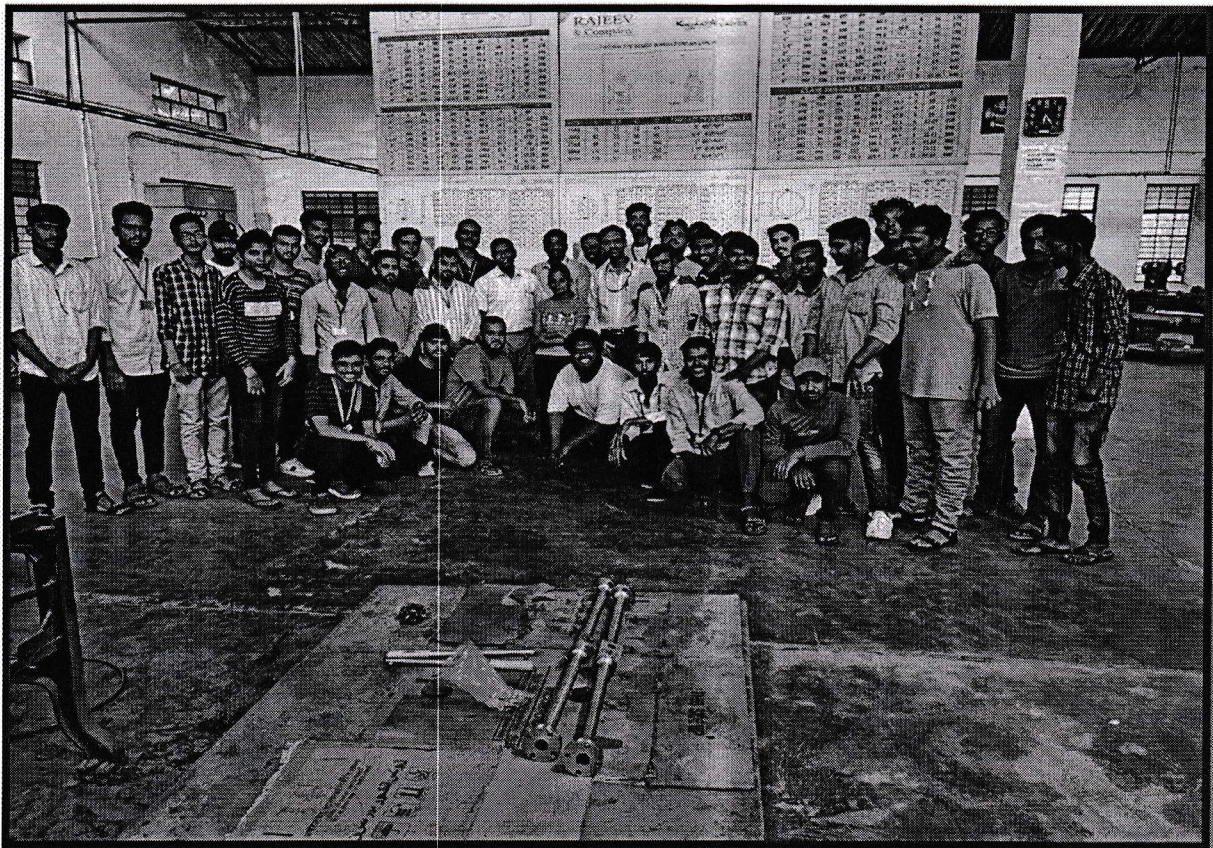
Mr. Rajeev Rao, Entrepreneur, Rajeev & Rao Company, Belagavi is delivering about working of valves during industry visit held on 4<sup>th</sup> June 2022.




Mr. Rajeev Rao, Entrepreneur, Rajeev & Rao Company, Belagavi is delivering about working of valves during industry visit held on 4<sup>th</sup> June 2022



Mr. Rajeev Rao, Entrepreneur, Rajeev & Rao Company, Belagavi is interacting our student during industry visit held on 4<sup>th</sup> June 2022



Staff and students attended an industry visit at Rajeev & Rao Company, Belagavi held on 4<sup>th</sup> June 2022.

|   |  |                         |
|---|--|-------------------------|
|  | S J P N Trust's<br><b>Hirasugar Institute of Technology, Nidasoshi</b><br><i>Inculcating Values, Promoting Prosperity</i><br>Approved by AICTE, Recognized by Govt. of Karnataka and<br>Affiliated to VTU Belagavi.<br>Accredited at 'A' Grade by NAAC<br>Programmes Accredited by NBA: CSE, ECE, EEE & ME | <b>Mech. Engg. Dept</b> |
|   |  | <b>Activities</b>       |
|   |  | <b>Feedback</b>         |
|   |  | <b>2021-22 (Even)</b>   |

### FEEDBACK

Title of the Activity: **Industrial Visit to "Rajeev & Rao Company, Belagavi"**

| Gap No.: 14 | Mapped POs                | POs Weightage           | Mapped PSOs | PSOs Weightage |
|-------------|---------------------------|-------------------------|-------------|----------------|
|             | 1,2,3,4,6,7,8,10, 11 & 12 | 3,3,3,3,3,3,3,3,3,3 & 3 | 1,2 & 3     | 3,3 & 3        |

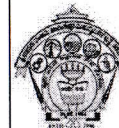
Date/Duration: 04-06-2022 Place: Belagavi

Note: Solicit your response in numeric (10 points:Excellent-0 point: Not Good)

| S.No.               | Parameter  | Numeric Response (0-10) |
|---------------------|--|-------------------------|
| 1                   | Concept realization and skills observed during industry visit.         | 10                      |
| 2                   | Inspired to build and lead the better career after the graduation.     | 10                      |
| 3                   | Rate the industry in the professional learning prospective.            | 10                      |
| 4                   | Your development/+ve change during the industry visit.                 | 10                      |
| 5                   | Overall motivation and inspiration received during the industry visit. | 10                      |
| <b>Total points</b> |  | <b>50</b>               |

Write your comments on activity/event organization (All Arrangements such as Hospitality, Logistics, and Hall etc.):

  
Signature of the Participant

|  |  |                         |
|--|--|-------------------------|
|  | S J P N Trust's<br><b>Hirasugar Institute of Technology, Nidasoshi</b><br><i>Inculcating Values, Promoting Prosperity</i><br>Approved by AICTE, Recognized by Govt. of Karnataka and<br>Affiliated to VTU Belagavi.<br>Accredited at 'A' Grade by NAAC<br>Programmes Accredited by NBA: CSE, ECE, EEE & ME | <b>Mech. Engg. Dept</b> |
|  |  | <b>Activities</b>       |
|  |  | <b>Feedback</b>         |
|  |  | <b>2021-22 (Even)</b>   |

### FEEDBACK

Title of the Activity: **Industrial Visit to "Rajeev & Rao Company, Belagavi"**

| Gap No.: 14 | Mapped POs                | POs Weightage              | Mapped PSOs | PSOs Weightage |
|-------------|---------------------------|----------------------------|-------------|----------------|
|             | 1,2,3,4,6,7,8,10,1 1 & 12 | 3,3,3,3,3,3,3,3,3,3 ,3 & 3 | 1,2 & 3     | 3,3 & 3        |

Date/Duration: 04-06-2022 Venue: Belagavi

Note: Solicit your response in numeric (10 points:Excellent-0 point: Not Good)

| S.No.               | Parameter  | Numeric Response (0-10) |
|---------------------|--|-------------------------|
| 1                   | Concept realization and skills observed during industry visit.         | 10                      |
| 2                   | Inspired to build and lead the better career after the graduation.     | 10                      |
| 3                   | Rate the industry in the professional learning prospective.            | 10                      |
| 4                   | Your development/+ve change during the industry visit.                 | 10                      |
| 5                   | Overall motivation and inspiration received during the industry visit. | 10                      |
| <b>Total points</b> |  | <b>50</b>               |

Write your comments on activity/event organization (All Arrangements such as Hospitality, Logistics, and Hall etc.):

  
Signature of the Participant



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Activities

Impact Analysis on Feedback

AY:2021-22

### Impact Analysis and PO & PSO Attainment

|   |  |                                     |  |
|---|--|-------------------------------------|--|
| <b>Activity Name:</b>                                       | Industry Visit at Rajeev & Rao Company, Belagavi | <b>No. of Respondents (N):</b>      | 38   |
| <b>Grand Total Points are given by all respondents (T):</b> | 1893   | <b>Impact Coefficient (IC=0-1):</b> | Here, $IC = T / (N * 50) = 1893 / (38 * 50) = 0.996$ |

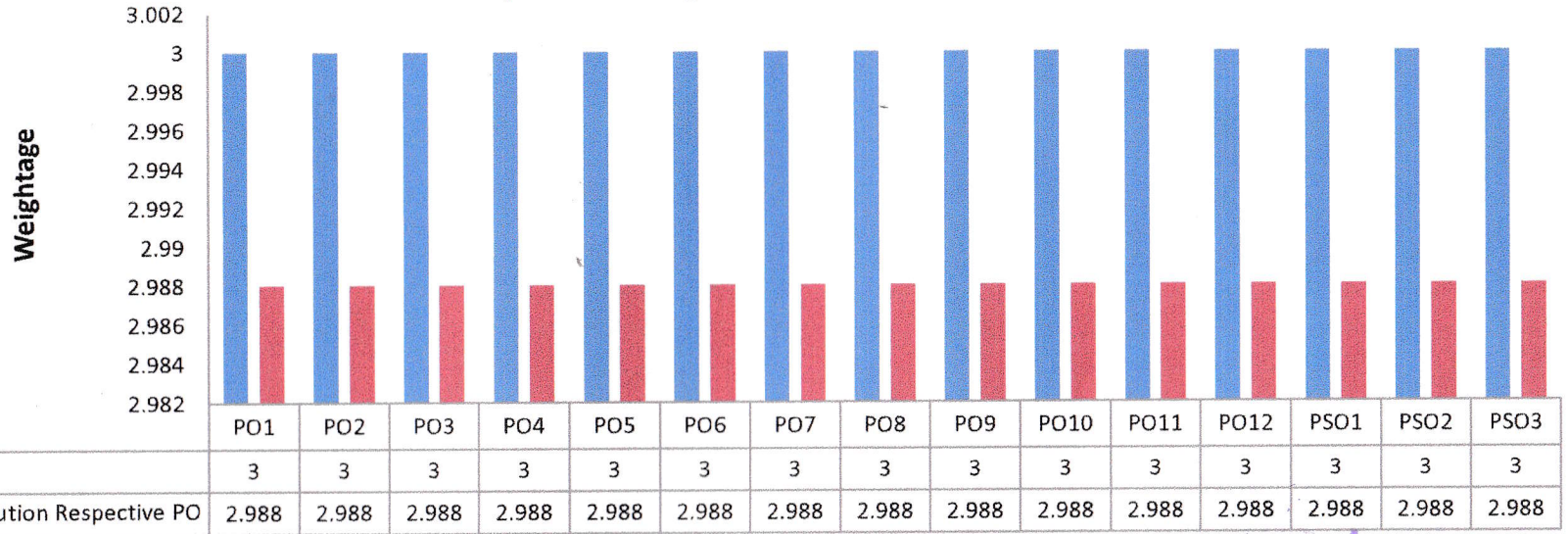
| Mapped PO/s | Weightage Assigned (1/2/3) | PO Attained/Activity Contribution to the respective PO (IC*Weightage Assigned) | Mapped PSO/s | Weightage Assigned (1/2/3) | PO Attained/Activity Contribution to the respective PSO (IC*Weightage Assigned) |
|-------------|----------------------------|--|--------------|----------------------------|---|
| PO1         | 3                          | 2.988  | PSO1         | 3                          | 2.988   |
| PO2         | 3                          | 2.988  | PSO2         | 3                          | 2.988   |
| PO3         | 3                          | 2.988  | PSO3         | 3                          | 2.988   |
| PO4         | 3                          | 2.988  |              |                            |   |
| PO5         | 3                          | 2.988  |              |                            |   |
| PO6         | 3                          | 2.988  |              |                            |   |
| PO7         | 3                          | 2.988  |              |                            |   |
| PO8         | 3                          | 2.988  |              |                            |   |
| PO9         | 3                          | 2.988  |              |                            |   |
| PO10        | 3                          | 2.988  |              |                            |   |
| PO11        | 3                          | 2.988  |              |                            |   |
| PO12        | 3                          | 2.988  |              |                            |   |



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**Mech. Engg. Dept.**  
**Activities**  
**Impact Analysis on Feedback**  
**AY:2021-22**

### Impact Analysis and PO & PSO Attainment



**Justification:**

**1. Justification for Mapping of POs & PSOs**

| Mapped POs/ PSOs | Weightage | Justification   |
|------------------|-----------|---|
| PO1              | 3         | This activity substantially addresses valves that regulate the flow of fluids, fluidized solids, slurries, or liquid, by opening, closing, or partially obstructing various passageways.  |
| PO2              | 3         | This activity substantially enlightens analyses performance for both ball valve and gate valve is necessitated with input parameters that outfit the application such as pressure, density, viscosity, and temperature.   |
| PO3              | 3         | This activity substantially enlightens me. valve production companies across the world have developed high-performance globe valve designs to overcome the problems of the conventional globe. This involves reduced flow capacity, noise, pressure drops, cavitation issues, and difficult manual operation to name a few. |



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**Mech. Engg. Dept.**

**Activities**

**Impact Analysis on Feedback**

**AY:2021-22**

|      |   |  |
|------|---|--|
| PO4  | 3 | This activity substantially about intelligent control systems with an integrated embedded processor and networking capability for valve trees is becoming imperative. This is of the most powerful valve design trends.  |
| PO5  | 3 | This activity substantially addresses Computational Fluid Dynamic analysis is carried out to establish a robust affiliation between the design variables of the material design domain and product design domain. 3D simulation software can now be used to analyze and test various solutions without the need to build and test multiple designs and prototypes. |
| PO6  | 3 | This activity addresses briefly Valves play a vital role in most the industries involving pipelines or other applications. Some of the common industries having valves are oil, gas, petrochemicals, the marine industry, and many more.   |
| PO7  | 3 | This activity addresses briefly Ensure continuous improvement in processes that have an impact on environmental operations and performances, including those not subject to regulation and recycles all waste materials of valves.   |
| PO8  | 3 | This activity addresses the Code defines the set of principles and ethical values which the Company intends to be inspired and aims to define the perimeter of the ethical and social responsibilities of all those who work on the valve on behalf with the express intent of preventing irresponsible and/or unlawful conducts.                                  |
| PO9  | 3 | This activity address provides full inline, onsite, and shop valve repair services and maintenance programs for virtually all valve types, brands, sizes, materials, pressures, and operating conditions, including actuators and operators.   |
| PO10 | 3 | This activity enlightens understanding of pressure management as it pertains to system pressure controls, tank turnover, flushing, water quality, remote pressure monitoring, and leak detection are of great importance to utility managers.  |
| PO11 | 3 | This activity provides knowledge about project management and finance, overall responsibilities of financial issues, and covering new enquiry of valves.   |
| PO12 | 3 | This activity enlightens Valves play a vital role in most industries involving pipelines or other applications. Some of the common industries having valves are oil, gas, petrochemicals, the marine industry, and many more.  |
| PSO1 | 3 | This activity provides exposure to industries such as chemical, power, metalworking, and oil & gas all having an increasing demand for innovative valves that meet the sectors' requirements. To fulfill these demands, the valve production sector needs to substantially lower fabrication costs and the development   |



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Activities

Impact Analysis on Feedback

AY:2021-22


|      |   |  |
|------|---|--|
|      |   | time, while keeping up with the industry's innovations.  |
| PSO2 | 3 | This activity addresses knowledge of Designing control valves including all categories and rotating shaft control valves predominantly linked to power generation, water and wastewater, and chemical processing industries.         |
| PSO3 | 3 | This activity enlightens about the increased reliability and responsiveness of these systems is preferred for industry-standard electro-hydraulic control systems as they allow remote monitoring through a central control station. |

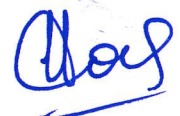
2. The activity mapped with PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, and PO11 & PO12 was found satisfactory with an attainment level of 2.988 each against the Mapped values during the impact analysis.
3. The activity mapped with PSO1, PSO2 & PSO3 was found satisfactory with an attainment level of 2.988 each against the Mapped value during the impact analysis.

**Conclusion:** The activity is organized to fulfill the program outcomes engineering knowledge, problem analysis, design/development solution, conduct investigations of complex problems, modern tool usage, engineer and society, environment and sustainability, ethics, individual & teamwork, communication, project management & finance and lifelong learning and PSO1, PSO2 & PSO3 has mitigated the gap identified satisfactorily to some extent.

**Future Suggestions:** Valves play a vital role in most industries involving pipelines or other applications. Hence students get exposure to various types of valves which help them to develop technical skills about working principles and application of valves.

  
Mr. Vivekanand Kambi  
AIMSS Secretary

  
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