



Impact of MOU's 2021-22

Department of Mechanical Engineering

About the Department

The Department of Mechanical Engineering is in the forefront of promoting Industry Institute Interaction by organizing collaborative workshops, seminars, expert talks, field visits etc. It emphasizes on development of practical skills to make students employable and industry ready. The department has qualified & experienced faculty from core areas of Mechanical Engineering, i.e., Design, Thermal, Manufacturing, Automation & Industrial Engineering with average experience of more than 10 years. The Department is actively involved in consultancy, testing and training for industries and Government organizations. We also intend to tie up with local industries to set up centers of excellence to jointly promote research and development and other activities.

Vision

Our Vision:

To evolve as a Centre of Excellence in Mechanical Engineering with strong Industry Connect ensuring engineers with a global perspective and professional ethics, thus adding value to society.

Mission

Our Mission

- To ensure proficiency in academics with emphasis on fundamental concepts and problem solving leading to practical applications in the field of Mechanical Engineering.
- To provide state of the art Training in collaboration with reputed Industries and Institutions focusing on interdisciplinary domains.
- To engage in Research, Consultancy services and promote Community outreach Initiatives.
- To promote Faculty Development through Quality Improvement Programs and Research.

The Department of Mechanical Engineering has signed a Memorandum of Understanding (MoU) with the following reputed organizations:

| Sr. no | Name of Organization/Institute | Date of Signing |
|---------------|---------------------------------------|-------------------------------|
| 1. | SANOFI HEALTHCARE INDIA PVT. LTD. | 22 nd January 2019 |
| 2. | TURBOCAM INDIA PVT. LTD. | 4 th October 2019 |
| 3. | GODREJ AND BOYCE MFG COM LTD. | 15 th October 2019 |
| 4. | ASTRA METAL SYSTEMS LTD. | 15 th October 2019 |

The purpose of collaborating with reputed Institutes is:

1. To recognize mutual interest in the field of research, training and development and dissemination of knowledge.
2. To recognize the importance of collaboration with industries within the field of expertise.
3. To foster industrial internship for engineer interns in order to get exposure in the industries which will be mutually beneficial for the students and the parties.
4. To provide a platform where experts from the corporate and students come under one roof.
5. To ensure professionals from industries and faculty from DBCE with relevant experience and expertise to share knowledge in relevant areas with changing technology.
6. To relate course curriculum with real life technological processes.
7. To develop research and innovation ability among budding engineers/interns.
8. To ensure entrepreneurship skills among willful engineers/ interns/ candidates.
9. To set a ground for long term institute and industry relationship for field visits, guest lecturers and skill development.

1. MoU with Sanofi Healthcare India Pvt. Ltd.

SANOFI HEALTHCARE INDIA PVT. LTD.

A Memorandum of Understanding was signed by Don Bosco College of Engineering, Fatorda with Sanofi Healthcare India Pvt. Ltd., a multinational pharmaceutical company having its Formulation Development Centre at Verna, Goa on 22nd January 2019 and renewed on 1st August 2021. The purpose of this MOU is to collaborate with the Department Of Mechanical Engineering of DBCE for Industrial Internships, field visits, Placements, Guest lectures, seminars/workshops, corporate training programs, Skill Development etc. The collaboration will provide a platform where experts from the corporate with relevant experience and expertise will share knowledge in the area with changing technological scenarios. It will help to develop research and innovation ability and entrepreneurship skills among budding engineers. It will also facilitate exchange of facilities and knowledge among both the organizations. It will also aim to facilitate research among the faculty members. The MOU was signed by Dr. Praveen Khullar, Head of Goa Global Development Centre & Deputy Head – Scientific & Technical Support, Sanofi and Fr. Kinley D`Cruz, Director, Don Bosco College of Engineering. Mr. Manoj Kharde, Senior Manager- Human Resource & Admin and Mr. Prasad Adpaikar, Manager – Engineering and Operations and Prof. Ajit Salunke, HOD Mechanical Engineering Department were also present during the occasion.



Signing of MOU – DBCE and Sanofi on 22nd January 2019

- **IMPACT**

| | Number of participants | | | | |
|-----------------------------------------------------|------------------------|---------|---------|---------|-------------|
| | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
| Internships | - | 4 | 2 | - | 4 |
| Talks | 1 | 1 | - | 1 | 1 |
| Participants in Training programs/ Workshops | - | 5 | 3 | 4+2 | - |
| Field visits | | | | | 1 (Virtual) |

- Mr. Prasad Adpaikar delivered a talk on ‘Role of Engineering in Pharma industry on 8th December 2021.
- A virtual field visit was conducted on 27th October 2021 for TE & BE Mech
- Mr. Prasad Adpaikar from SANOFI attended Academic Advisory Board meeting and gave valuable suggestions
- Four students did internship for a period of 8 weeks at the industry. During the internship tenure, the faculty from the institute visited the industry to obtain the feedback on performance of the students in their internship.

2. MoU with Turbocam India Pvt. Ltd.

TURBOCAM INDIA PVT. LTD.

TURBOCAM is a global leader in innovative manufacturing solutions for high performance turbomachinery flow path components, serving customers in the aviation, space transport, automotive turbocharger, power generation, and industrial gas compression markets.



MOU Signed with Turbocam on 4th October 2019

A Memorandum of Understanding was signed by Don Bosco College of Engineering, Fatorda with Turbocam (India) Private Limited, of manufacture of sophisticated aero foil components for aerospace, power generation, automotive and other industries at Margao Industrial Estate, Goa on 4th October 2019 and renewed on 10th October 2022. The purpose of this MOU is to collaborate with the Department of Mechanical Engineering of DBCE for Industrial Internships, field visits, Guest lectures, Student Projects, seminars/workshops, corporate training programs, Skill Development etc. The collaboration will provide a platform where experts from the corporate with relevant experience and expertise will share knowledge in the area with changing technological scenarios. It will help to develop research and innovation ability and entrepreneurship skills among budding engineers. It will also facilitate exchange of facilities and knowledge among both the organizations. It will also aim to facilitate research among the faculty members.

The MOU was signed by Mr. Savio Carvalho, Director, Turbocam India Pvt. Ltd. and Fr. Kinley D`Cruz, Director, Don Bosco College of Engineering. Dr. Neena Panandikar, Principal, DBCE , Prof. Ajit Salunke, HOD Mechanical Engineering Department .Prof. Swapnil Ramani, Assistant Prof Mechanical Engineering Department and members of the Engineering Department in Turbocam were also present during the occasion.

- **IMPACT**

| | Number of participants | | | | |
|-----------------------------------------------------|------------------------|----------|---------|-------------|-----------------------------------------------------------|
| | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 (ongoing) |
| Placements | - | 03 | 03 | 01 | 01 |
| Internships | 04 | 07 | 03 | - | 10 |
| Field visits | 01 | 01 | | - | - |
| Collaborative Workshops | 1 | 1 | 1 | - | - |
| Participants in Training programs/ Workshops | - | 04 | - | - | 01 |
| Funding | 100000/- | 150000/- | - | Rs. 10000/- | HAAS VMC along with accessories donated to the CNC centre |

- A CNC Vertical Milling machine worth Rs. 35.62 lakhs has been donated to the institute by Turbocam International. An additional amount of 2 lakhs has been spent on installation, accessories, etc.
- Company engineers helped with installation and maintenance
- 2 lab assistants underwent 15 days of training on CNC machine at the industry
- Mr. Savio Carvalho, Director Turbocam has attended several meetings with regards to Procurement of CNC machine at FIIRE and is actively involved in its installation
- He also attended IQAC meeting on 21st September 2022 and gave valuable suggestions
- Mr. Marian Noronha, Chairman & President, Turbocam International, USA visited Don Bosco College of Engineering, Fatorda along with Mr. Savio Carvalho, Director, Turbocam India Pvt. Ltd., on 18th January 2022. He presented a memento to DBCE for its dedicated service and ongoing commitment to local student community.
- Mr. Savio Carvalho, Mr. Gilroy & Mr. Elton D'Souza were a part of NBA accreditation as employers feedback on 23rd April 2022
- Eight students did internship for a period of 8 weeks and two students for a period of 2 weeks at the industry. During the internship tenure, the faculty from the institute visited the industry to obtain the feedback on performance of the students in their internship. Four students have converted their internship into their final year project.

3. MoU with Godrej and Boyce Mfg Com Ltd. & Astra Metal Systems Pvt. Ltd.

Don Bosco College of Engineering signed MOU with Godrej and Boyce Mfg Com Ltd, Madkai, Industrial Estate, Ponda and Astra Metal Systems Pvt. Ltd. Verna during the Inauguration of Centre of Excellence for Employability Enhancement (CEEE) on 15th October 2019 at Taleigao Community Centre. The event was organized by the Directorate of Technical education, Goa and was graced by Dr. Pramod Sawant, Hon. Chief Minister of Goa, who was the Chief Guest. Mr. James Kurian, Associate Vice President signed the MOU on behalf Godrej and Boyce Mfg Com Ltd. and the MOU with Astra Metal was signed by Mr. Satish Shinde, Managing Director. Rev. Fr. Kinley D’Cruz, Director signed the MOUs on behalf of Don Bosco College of Engineering in presence of Dr. Neena Panandikar, Principal and Prof. Ajit Salunke, HOD (Mechanical).



MOU Signed with Godrej and Astra metals on 15th October 2019

GODREJ AND BOYCE MFG COM LTD.

Engineering excellence and a strong pioneering spirit continues to underscore the operating philosophy of Godrej & Boyce Mfg. Co. Ltd. (G&B), the flagship company of the Godrej Group. Since 1897, G&B has played a pivotal role in India’s economic growth and created sustainable value for all its stakeholders through its products and services across ten industries.

With revenues of INR 11,500 crore (FY 2019-20) and over 14,000 committed employees, G&B’s diverse presence across 10 industries – from building complex bespoke engineering solutions to making branded consumer goods like appliances, furniture, locks and security solutions. G&B positively impacts the lives of one-third of India’s population. Through international subsidiaries and joint ventures, the company’s products have also established a strong global footprint across 5 continents. Earnestek and Don Bosco College of Engineering entered into a MoU on 21st August 2019. The scope of this MoU involves training and internship to willing candidates. The MoU also encourages conduct of workshops, training sessions, guest lectures and technical model competitions at either organisation.

- **IMPACT**

| | Number of participants | | | | |
|-----------------------------------------------------|-------------------------------|----------------|----------------|----------------|----------------|
| | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
| Placements | 02 | - | 01 | 01 | - |
| Internships | 02 | - | - | - | - |
| Field visits | - | 01 | - | - | - |
| Corporate Trainings | - | - | 01 | - | - |
| Participants in Training programs/ Workshops | - | - | 02 | - | - |
| Collaborations | - | - | - | - | 01 |

- Amogh Prabhudesai from Godrej collaborated in the installation of TIG MIG welding setup at the institute

ASTRA METAL SYSTEMS LTD.

Astra Metal Systems Ltd. is an end-to-end solutions provider for Precision Metal and Assemblies. (Mechanical and Electro-Mechanical) The industry has been serving national and international clients for around two decades. The company is AS9100C and ISO-9001-2015 certified.

- **IMPACT**

| | Number of participants | | | | |
|---------------------|-------------------------------|----------------|----------------|----------------|----------------|
| | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
| Placements | - | - | 02 | 02 | 01 |
| Internships | - | - | 02 | - | 02 |
| Field visits | 01 | 01 | - | - | 01 |

- Field visit was conducted on 7th October 2022
- Interviews ongoing. Students shortlisted
- Mr. Murad Mulla was a part of NBA accreditation as employers feedback on 23rd April 2022