

Prof. Sambhajirao Kadam College, Deur

Department of Physics

Academic Year 2022-23

Activity Report

Experiential Learning through Project Work/Field Work/Internship/Study
Excursion

Name of the Activity	Internship
Organizing Department/Faculty	Department of Physics
Venue	M/S Beacon Gear Transmissions ,Satara
Coordinator & Faculties	Asst. Prof. N.N.Sawant Asst. Prof. S.S.Shinde
No. of Participants	8
Supporting Documents	Letter of Principal
	Appreciation Letter
	Student List
	Photos
	Completion Letter/Report

Coordinator



Dr. B. N. Bhosale
Principal,
Prof. Sambhajirao Kadam College,
Deur, Tal. Koregaon, Dist. Satara.



|| Bahujan Hitay ||

Shri Mudhaldevi Shikshan Sansha's,

PROF. SAMBAJIRAO KADAM COLLEGE, DEUR

Affiliated to Shivaji University, Kolhapur

Address : A/p. Deur Tal. Korngan, Dist. Satara - 415524, Maharashtra (India)

• Tel./Fax: (02371) 254068, 254227 • Web: www.pskcdcollege.deur.in • Email: pskcdcollege@rediffmail.com

Outward No. PSKCD/ Science/ 2022-2023

Date - 06/12/2022

To,

M/S Beacon Gear Transmission Pvt Ltd.
Manufacturer & Export Venture
Plot no. W-9, MIDC Area,
Satara-415004

Subject: To get permission for Industrial visit.

Respected Sir,

We feel indeed privileged to be associated and partnered with your esteemed firm, and very much obliged for being in engagement with you by way organizing and conducting the collaborative activities for the benefit of the students.

In furtherance to our ever long tie-up, cherishing the cause of student's progression, we feel immensely pleased to organize an onsite study visit to your industrial units with a batch of Physics students on a date and time convenient to you; that will provide an unique opportunity, enriching experience and exposure for the students to live operations, processes production assembly and industrial/business ecosystem.

We shall be therefore highly obliged if you could give us the convenient date and time on which the proposed onsite study visit can be planned without much disrupting your normal schedule.

Our representative, Asst. Prof. N. N. Sawant who is coordinator of the activity, shall be in consultation with you and work out the further details having once the schedule are decided upon.

We look forward to hearing from you and in the meantime, we remain,

Yours Sincerely,

Coordinator

Principal



Est. 1999
NAAC Rescredited 'B'
(GPA 2.52)

|| Babujan Hray ||

Shri Mudhaidevi Shikshan Sanstha's,

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Address : A/p. Deur, Tal. Koregaon, Dist. Satara - 415524, Maharashtra (India)

• Tel./Fax: (02371) 254368, 254227 • Web: www.pskcollege.ac.in • Email: pskcollege@psk.ac.in

Outward No. PSKCD/ Science/ 2021-2022

Date - 10/12/2022

To,

M/S Beacon Gear Transmission Pvt Ltd.

Manufacturer & Export Venture

Plot no. W-9, MIDC Area,

Satara-415004

Respected Sir/Madam,

We feel duty-bound to express our sincere gratitude for the continued support and cooperation extended by your esteemed organisation in organising and conducting the Industrial session under experimental/experiential learning at your campus on 10th December 2022 besides your ever busy schedule.

Being associated with us as a valued knowledge partner, I must place on record that the interactive session has indeed provided to the faculty and students an opportunity and exposure to the high end engineering application of the theory; which would prove immensely useful in conceptual understanding of theoretical concepts and their practical orientation.

We look forward to your continued support and cooperation in conducting such academic sessions.

Best regards,

Sincerely yours,

Coordinator

Principal

Attendance Report on Industrial Session
(Under the Experimental Learning Programme)

Students list

Activity Date: 10/12/2022

Sr. No.	Name	Class
1	Bhoite Aditya Chandrakant	B.Sc III
2	Chavan Sayali Bajrang	B.Sc III
3	Dhumal Siddesh Rajaram	B.Sc III
4	Inamdar Mohin Musa	B.Sc III
5	Jadhav Rohit Bapurao	B.Sc III
6	Kadam Vrushali Mansing	B.Sc III
7	Lakade Tushar Ramchandra	B.Sc III
8	Mahamuni Prabhanjan Nandkumar	B.Sc III
9	Mane Tushar Vijay	B.Sc III
10	Pawar Sonali Suryakant	B.Sc III

Report on Industrial Session

(Under the Experimental Learning Programme)

Name of the Industry:

M/S Beacon Gear Transmissions Pvt Ltd.,
Manufacturing & Export Venture of Gear Boxes
Satara-415004

Email ID beaongearssatara@yahoo.com

Contact No. 9822379065

Date of Visit 10.12.2022

Profile: 10 Students of B.Sc. III
(Offering Physics as Optional Subject)

Accompanying Faculty:

- 1) Prof. N. N. Sawant
Asst. Professor and Head, Department of Physics
- 2) Prof. S.S.Shinde
Asst. Professor, Department of Physics

VENUE: M/S Beacon Gear Transmissions Satara
Participating Students and the Faculty Members



Report on the Industrial Interactive Session at Beacon Gear Transmissions, Satara
(Organised under Experimental Learning Programme)

Vision:

- Establishing correspondence between theoretical abstract concepts with physical objects.
- Institution strives to provide experimental learning through. (For better conceptual institute shive to provide experimental learning through exposing the student to industry / business interface for better conceptual understanding)

Objectives:

To impart industrial exposure and hands on training on various industrial process and to introduce machine dynamic, science behind and give them a clear idea about the engineering marvels.

- To harness on industry academia interface.
- To provide exposure to high end machines and scientific principles, laws, process based on.
- To experience the working environment in industry and visualise the important department in the industry.
- Interaction of students with industry personnets/experts.
- .
- To prepare students for the selection of career path in different department of industry.

Topic covered: Applied Physics-Mechanical power transmission

Mechanical power transmission refers to the transfer of mechanical energy (physical motion) from one component to another in machines. Most machines need some form of mechanical power transmission. Common examples include electric shavers, water pumps, turbines and automobiles.

Motivation and Facilitation:

Principal **Dr. B. N. Bhosale** approved the industrial session with the partner industries and encouraged the faculty to organize similar kind of activities for the benefits of students.

The Departments of Physics and Chemistry organised an industrial session. Owner and Managing director **Er. Rajendra Mohite** as resource session organized the visit to each engineering departments and explained the process metallurgical aspects.

Activities at the work place (Industry):

- Formal precipitation, introduction and interaction with the industry personals.
- Whirlwind visit to various departments, workshops, production line, machine assembly.
- Expert guidance, machine operations, science and engineering designs involved in it.
- Demonstrating simulation, synchronisation assemblies, alignments, atomization, and acclimatization of process.
- Demonstrating how theoretical laws, principals are depicted through machines, engineering and actual functioning/ actual operational aspects of the machines and production assembly line from raw inputs/ materials to finished and product.
- Question answer session, career opportunities and potential skills required for the industry.

Feedback on the Industrial Session: (The Outputs Achieved)

- The visit provided live exposure to the industrial set-up process high end machines and production line.
- It helped the students to understand the theoretical concepts in the opted courses through experimental learning.

The interactive Session helped:

- To give exposure to the industrial ecosystem safety measures at work place. Environment, sustainability, initiations and practices and Industrial work ethics and professionalism.
- To know the career opportunities offered by the industry and job specific technical and professional skill required to be acquired besides pursuing conventional epics
- To arouse the research acumen in the field.

The Feedback Analysis shows that the students have gained the conceptual understanding on the theoretical topics covered and opined that more such experimental learning programme covering largest spectra of science and technology be organised with the industry partner.

Dr. B. N. Bhosale
Principal,
Prof. Sambhajirao Kadam College,
Deur, Tal. Koregaon, Dist. Satara