Govindrao Wanjari College of Engineering & Technology, Nagpur

DVV-Criterion- 02

2.3

Teaching Learning Process

Index

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2.3.1- Student centric methods, such as experiential learning, participative learning and Problem-solving methodologies are used for enhancing learning experiences.

We believe in the adoption of students centric methods to enhance the students involvement as a part of experiential learning, participative learning and problem solving methodology.

1. Regular Teaching Techniques

Class Room Lectures & E- Learning Resources: Classroom lectures interspersed with discussion, resource for sound understanding, fundamentals, design and implementation. Generally teaching is carried out with conventional Green board-chalk and through PPTs using LCD projectors for explanation and visualization.

In current session (2021-2022), the session of teaching (Theory and Practical session) started with offline mode. The session of teaching continued with Conventional green board-chalk and PPTs presentation by using LCD projectors. NPTEL videos and other sources are also used for indepth learning of the subjects.

2. Experiential learning:

Experiential learning supports students in applying their knowledge understanding to real-world problems in a formal guided manner.

Laboratory sessions and Simulation: Technical education is always justified with the help of practical knowledge. In this context, we provide exposure to our students in the laboratories from the first year. Later from the second year, students related to the core department are given an exposure to their course related advanced practical orientation through various agencies in the respective field. In current session (2021-2022), the practical session started with offline mode and students performed the practicals or experiments in in respective laboratories as per syllabus mention by University. We have MoUs with various industries to provide platform to the students for experiential learning.

3. Participative learning:

The students of our college are made to participate in different brain-storming activities and case studies by consultation with field experts. Group discussions, Technical Quizzes, Debates, and Guest Lectures are conducted and students are motivated to participate in these activities. As the students come with different opinions and thought processes, the learning process gets justified in the arguemental way.

The students are given various opportunities to showcase their talent, communication and technical competency through brainstorming sessions, numerous contests, and seminars and encouraged to become members of professional bodies. They are also encouraged to organize technical events to develop their creativity by participating and organizing intercollegiate as well as national level technical symposiums. Industrial tours, field visits and internships make the students acquainted with industrial and work ethics followed by submission/ presentation report.

4. Problem Solving Methods

In Problem solving method, students learn about a subject by working in groups to solve an open-ended problem. In this method, students learn about how to define problems, gather information, generate possible solutions, evaluate ideas and then choose one solution. In our college campus assignments and problems on various topics are given regularly to increase engagement with subject and its understanding.

Case studies and Mini projects**:** To develop the problem solving methods and to enhance the practical knowledge and logical thinking of students, we are following case studies with innovative way and also encourage our students to make some Mini projects from second year onwards, though it is not a part of curriculum of Dr. Babasaheb Technological University, Lonare and RTM Nagpur University. The students are divided into small groups so that personal attention can be given and every student's role will become prominent.

1. REGULAR TEACHING TECHNIQUES

OFFLINE MODE (CLASS ROOM) / ONLINE MODE/ PPT PRESENTATION

PROF. PRASHANT GUMGAOKAR (DEPARTMENT OF INFORMATION TECHNOLOGY) CONDUCT THEORY CLASS (OFFLINE MODE-CLASS ROOM TEACHING)

PROF. PRASHANT GUMGAOKAR (DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING) CONDUCT POWER POINT PRESENTATION

PROF. PRACHI DUSSEWAR (DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING) CONDUCT THEORY CLASS (OFFLINE MODE-CLASS ROOM TEACHING)

PROF. MANOJ VAIRALKAR (DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING) CONDUCT POWER POINT PRESENTATION

PROF. GAORAV AGRAWAL (DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION) CONDUCT THEORY CLASS (OFFLINE MODE-CLASS ROOM TEACHING)

PROF. DIPAK BHONGADE (DEPARTMENT OF ELECTRONICS & TELE-COMMUNICATION) CONDUCT POWER POINT PRESENTATION

2. EXPERIENTIAL LEARNING

STUDENT GETTING PRACTICAL / TECHNICAL KNOWLEDGE BY PERFORMING PRACTICAL / EXPERIMENTIN ENGINEERING LABORATORY (EXPERIENTIAL LEARNING).

STUDENTS OF CIVIL ENGINEERING DEPARTMENT PERFORMING PRACTICAL/ EXPERIMENT IN LABORATORY

STUDENTS OF CIVIL ENGINEERING DEPARTMENT PERFORMING PRACTICAL/ EXPERIMENT IN LABORATORY

STUDENTS PERFORM EXPERIMENT "MACHINING PROCESS" IN WORKSHOP

STUDENTS OF FIRST YEAR B. TECH DEPARTMENT PERFORMING PRACTICAL/ EXPERIMENT IN PHYSICS LABORATORY

3. PARTICIPATIVE LEARNING

Students participate in different brain-storming activities and case studies.

The students of Computer Science & Engineering Department participated in Students Seminar conducted by CSE Department.

The students of Electrical Engineering Department participated in Students Seminar conducted by Electrical Engineering Department.

Group Discussion

GOVINDRAO WANJARI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

WANJARI GROUP

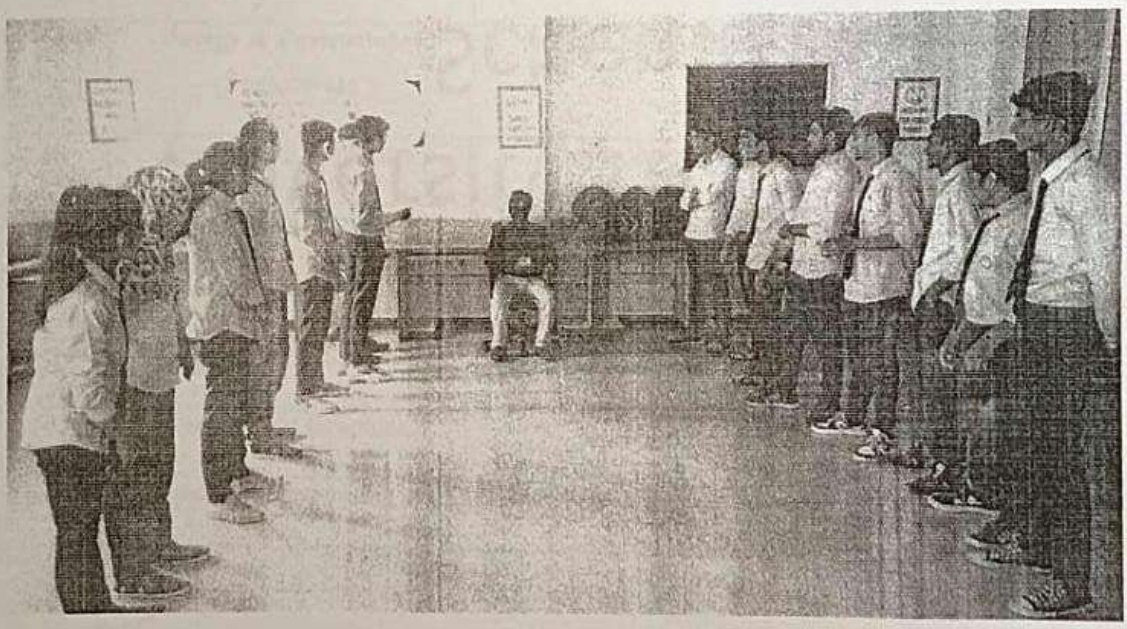
DEPARTMENT OF FIRST YEAR B. TECH.
REPORT ON GROUP DISCUSSION
(Class Assessment I –Technical Activity)

First year B. Tech. Department have ~~been~~ organized **Group Discussion session for Semester-I** students during the period 04/03/2022 to 04/03/2022 at 11.00 am. In this session 295 students were present. In this seminar, we make 20 groups of 15 students to conduct group discussion activity. In this session, group of students discuss on various topics for the respective subject. Maximum students benefited with 05 marks as internal for class assessment I. The details of the group discussion activity are as follows:

Sr. No.	Subject	Topic	Name of Teacher
1	**Energy & Environment Engineering**	Energy Conservation	Prof. Sharda Ishwarkar
2	**Engineering Chemistry**	Electro-Chemistry	Dr. Pravin Gaidhane
3	**Engineering Mechanics**	Friction	Prof. Rahul Arghode
4	**Engineering Physics**	Crystallography	Dr. Chandrakant Khobaragade
5	**Engineering Mathematics I**	Curve Tracing	Prof. Jayashri Mahendra
6	**Engineering Graphics**	Projection	Prof. Nitin Kumbhare
7	**Computer Programming in C**	Programming	Prof. Mohini Gawande

Prof. A. P. Nayak
First Year Coordinator
GWCET, Nagpur

B. Tech. First Semester (2021-2022) students participates in Group Discussion
(Subject: Mathematics-I)



B. Tech. First Semester (2021-2022) students participates in Group Discussion
(Subject: Engineering Physics)

DEPARTMENT OF FIRST YEAR B. TECH.
REPORT ON GROUP DISCUSSION
(Class Assessment I –Technical Activity)

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Guest Lecture

Govindrao Wanjari College of Engineering & Technology, Nagpur
Department of Civil Engineering

Session: 2021-22

Date: 14/03/2022

Title: - Guest Lecture delivered at Govindrao Wanajri College of Engineering & Technology, Nagpur

Date of Event:	14-03-2022 (Monday)
Topic:	Sustainable Energy for Building in terms of Green Building approach
Name of Expert & Affiliation:	Dr. M. P. Bhorkar
Contact & Email Id of Expert:	8600247620 mangesh.bhorkar@raisoni.net
Department/Class/Semester/Sections:	Civil/ 3th Yr./ 5th Sem/ All
No. of Beneficiaries:	52

A guest lecture was delivered by Dr. Mangesh Bhorkar, Civil Engineering Department, G H Raisoni College of Engineering Nagpur for the students of Civil Engineering of Govindrao Wanajri College of Engineering & Technology, Nagpur on 14th March 2022. The topic of lecture was "Sustainable Energy for Building in terms of Green Building approach". In this lecture Dr. Bhorkar explained various aspects of Green Building & How anyone can save the resources by construction of Green Building. He also stated the importance and advantages of green building by shown the various case studies of Nagpur cities green buildings. He also urged all to save energy, save water to all to minimize the carbon footprints on earth. For the lecture total 52 students and 6 faculty members from GWCET were present. The lecture was taken through online mode.

We take this opportunity to thank our Principal Dr. Salim Chavan Sir,for giving us an opportunity to go for an Online Mode Guest Lecture.We sincerely acknowledge Dr. Mangesh Bhorkar for his valuable guidance.

Incharge
CE, GWCET
Asst. Professor
Civil Engineering Dept
G.W.C.E.T. Nagpur

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Nagpur - 441204

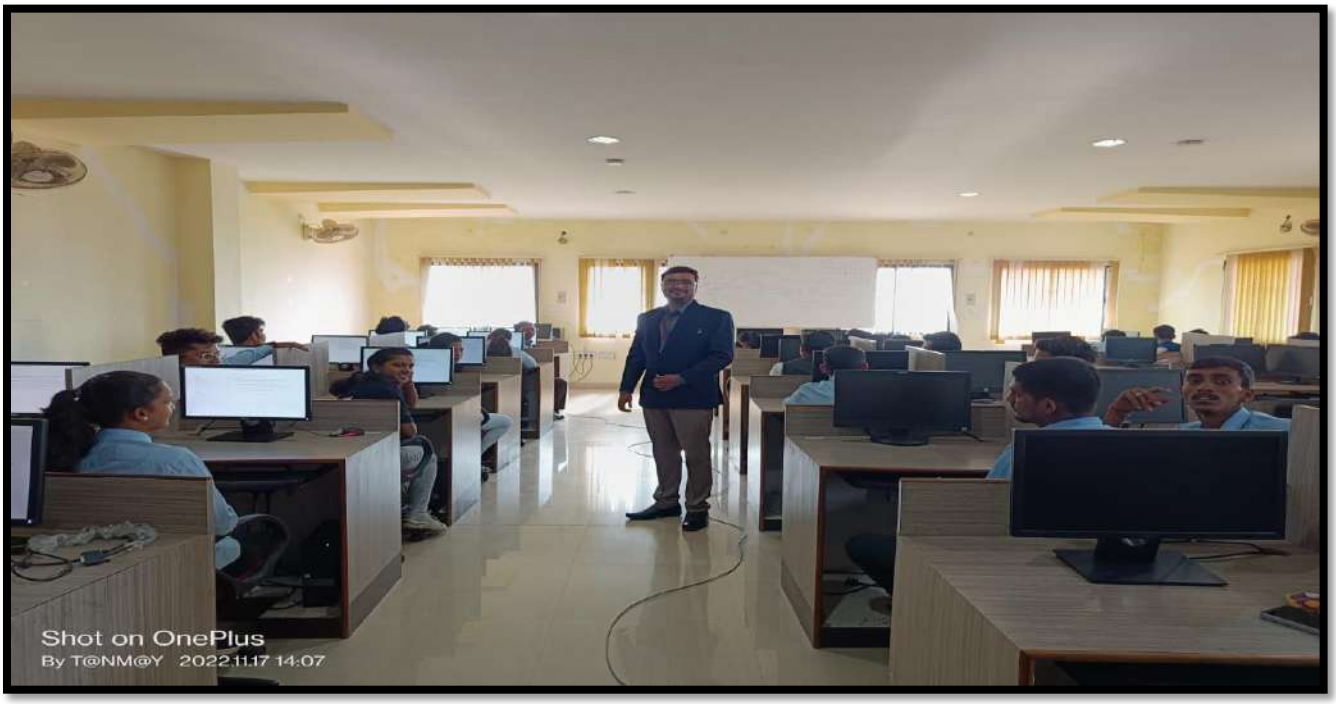
4. PROBLEM SOLVING METHODS

The problem solving methods enhance the practical knowledge and logical thinking of students.

Students of Computer Science and Engineering solving the problems given by Subject Teacher in surprise test after that providing correct solution regarding the problems.

Students of Civil Engineering solving the problems given by Subject Teacher in surprise test after that providing correct solution regarding the problems.

Students of Mechanical Engineering attend the internal workshop "How to solve the problems by various Tricks" conducted by Prof. Shubham Khorgade (Department of Mechanical Engineering)



Students of Information Technology attend the special lecture "Problems, Diagnose the situation and selection of one solution" conducted by Prof. Prashant Gumgaokar (Department of Information Technology).