

**BVRIT HYDERABAD College of Engineering for Women**  
**Department of Electrical and Electronics Engineering**

**Activity - 1**

**Name of the Activity:** Fostering Educational Diversity through Peer study groups

**Faculty Name:** Dr. K. Amritha

**Class:** I CSE – AI&ML / II Sem

**Academic Year:** / 2022-23

**Subject Name:** Basic Electrical Engineering

**Brief Write – Up:**

Students were asked to form 10 groups each having 6 or 7 students. It is assured that each group consists of one or two students who are good in the subject. A leader was assigned for each group. Each group was instructed to meet everyday for minimum 5 minutes for deciding the tasks for the day. The motivation behind the activity was that the students learn better from their peers.

<b>Teams for Group Study - BEE</b>							
<b>Group No</b>	<b>SNO.</b>	<b>ROLL NO</b>	<b>NAME</b>	<b>Group No</b>	<b>SNO.</b>	<b>ROLL NO</b>	<b>NAME</b>
<b>Group - 1</b>	1	22WH1A6631	B.Rishita	<b>Group - 6</b>	1	22wh1a6653	G.Sanjana
	2	22WH1A6628	M.Saatvika		2	22wh1a6659	B.Anitha
	3	22WH1A6630	M.Nithya Sri		3	22wh1a6611	K.Devika
	4	22WH1A6637	E.Lahari		4	22wh1a6643	N.Prasanna
	5	22WH1A6629	N.Keerthi		5	22wh1a6641	G.Anusha
	6	22WH1A6626	R.Ashritha		6	22wh1a6661	M.Siri Chandana
	7	22WH1A6620	K. Laxmi Prasanna		7	22wh1a6658	G.Vaishnavi
<b>Group - 2</b>	1	22wh1a6638	prashanthi	<b>Group - 7</b>	1	22WH1A6625	Kritika Patibandla
	2	22wh1a6648	k Vijaya rajasree		2	22WH1A6636	B.Hemanya Sai
	3	22wh1a6603	megna		3	22WH1A6639	P.Jhanavi
	4	22wh1a6642	b.niveda		4	22WH1A6656	A.Gayatri Devi
	5	22wh1a6664	pavani		5	22WH1A6615	M.Prasanna
	6	22wh1a6616	divya saahithya		6	22WH1A6627	O.V.Chandrika
	7	22wh1a6632	B.Padma sri				
<b>Group - 3</b>	1	22wh1a6622	P. Madhuri	<b>Group - 8</b>	1	22WH1A6607	Yashaswiny
	2	22wh1a6621	K. Moukthika		2	22WH1A6609	R.Ishwarya
	3	22wh1a2263	N. Manasvi		3	22WH1A6644	S.Aishwarya
	4	22wh1a2251	Pallavi Shreshma		4	22WH1A6645	N.Vaishnavi
	5	22wh1a6605	Sadiya		5	22WH1A6618	V. Keavalya Amritha

	6	22wh1a6608	G. Tejaswini		6	22WH1A6623	DeepikaPraharshini
<b>Group - 4</b>	1	22wh1a6652	B.Harshini	<b>Group - 9</b>	1	22WH1A6613	I Sivani
	2	22wh1a6604	K.Sneha Reddy		2	22WH1A6617	D Lasya
	3	22wh1a6646	B.Soumya		3	22WH1A6657	K Sreeja
	4	22wh1a6633	P.Preethi		4	22WH1A6649	Nanditha
	5	22wh1a6635	N.Jijnasa		5	22WH1A6634	Lasya
	6	22wh1a6602	V.Harshitha		6	22WH1A6647	Akshaya
					7	22WH1A6624	Ch Bhavya
<b>Group - 5</b>	1	22wh1a6601	G.Nikhita	<b>Group - 10</b>	1	22WH1A6610	L.Sharanya
	2	22wh1a6606	G.Revathi		2	22WH1A6612	L. Varsha
	3	22wh1a6654	R.Geetika Sri		3	22WH1A6619	Lakshmi Indu
	4	22wh1a6655	B.Anusha		4	22WH1A6650	Muskaan
	5	22wh1a6660	P.Harshini		5	22WH1A6640	Jahnvi Kakkar
	6	22wh1a6662	B.Sri Vaishnavi		6	22WH1A6614	Aiman Razia

*amith*

Faculty Sign

## Activity - 2

**Name of the Activity:** Experiential Learning (Project Based Learning)

**Subject Name:** Basic Electrical Engineering

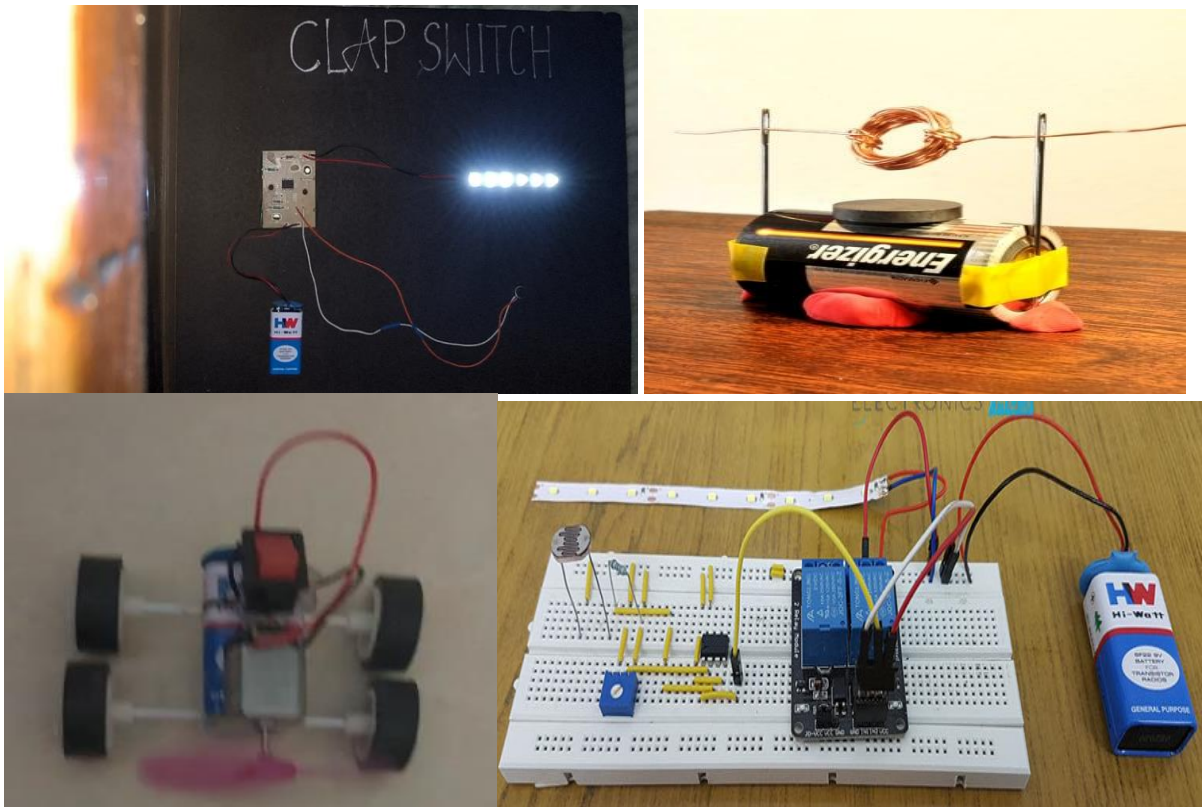
**Faculty Name:** Dr. K. Amritha

**Class:** I CSE – AI&ML / II Sem

**Academic Year:** / 2022-23

### **Write-up**

Project-Based Learning (PBL) is an instructional approach where students engage in exploring real-world problems and challenges, acquiring deeper knowledge and skills by actively working on projects over an extended period. This method focuses on student-centered inquiry, collaboration, and hands-on tasks, fostering critical thinking, creativity, and problem-solving abilities.



*Amritha*

Faculty Sign

**BVRIT HYDERABAD College of Engineering for Women**  
**Department of Electrical and Electronics Engineering**  
**Activity -3**

**Name of the Activity:** Experiential Learning (Technical Role play)

**Subject Name:** Basic Electrical Engineering

**Faculty Name:** Dr. K. Amritha

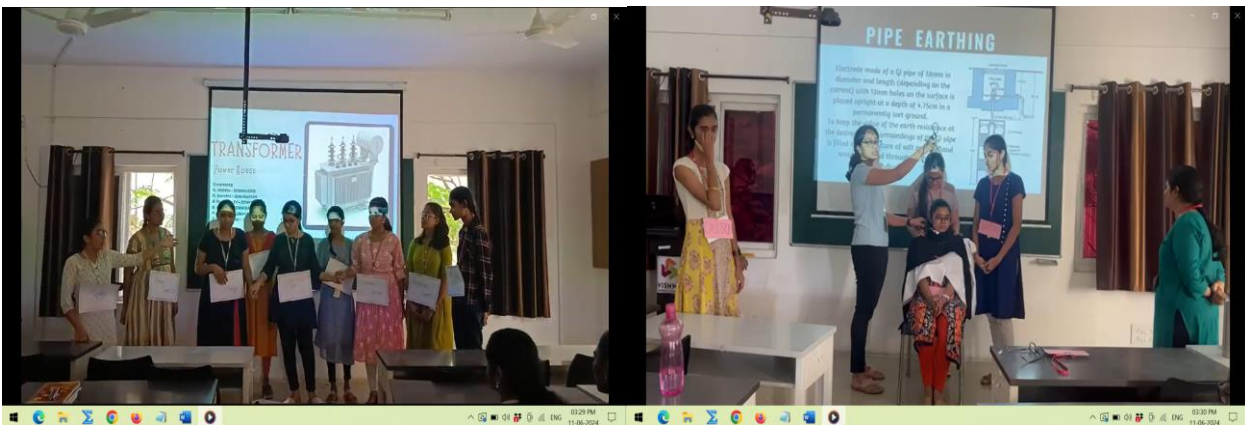
**Date of Conduction:** 17<sup>th</sup> August 2023

**Class / Year / Semester:** I CSE – AI&ML / 2022-23 / II Sem

**Write-up**

A class of 64 Students were made into small teams and topics were distributed to each team. They enacted the concept in the topic in an informal way. The motivation behind this activity was, the thought that the students should be able to relate the technical concepts with the nontechnical things and visualize them better. The impact of the activity was, the students could connect to the technical concepts in an informal manner and the faculty could understand the misconception that the students had in their mind and could correct them immediately.

**Photographs (if any)**



*Amritha*

Faculty Sign



## **BVRIT HYDERABAD College of Engineering for Women Department of Electrical and Electronics Engineering**

**Name of the Activity: Video Based Learning-Edpuzzle**

**Faculty Name: M Sandeep Kumar**

**Class: II – II /EEE**

**Academic Year: 2022-23**

**Subject Name: Electrical Machines-II**

**Topic: Video Based Learning using Edpuzzle**

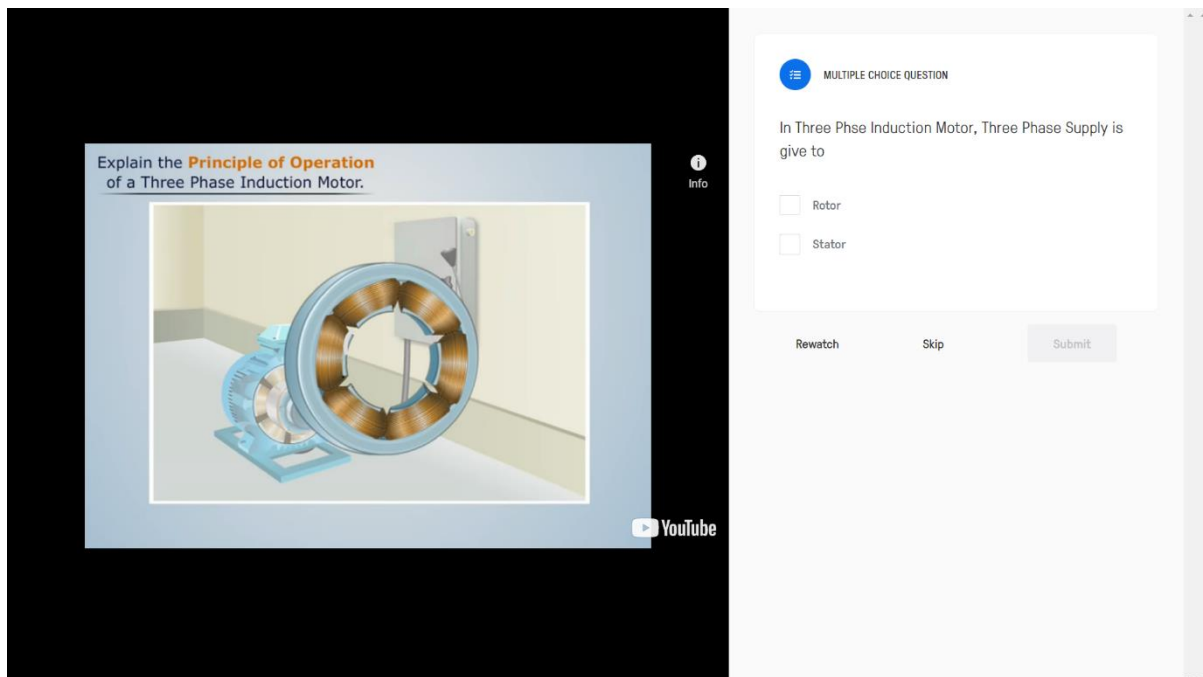
**Brief Write – Up**

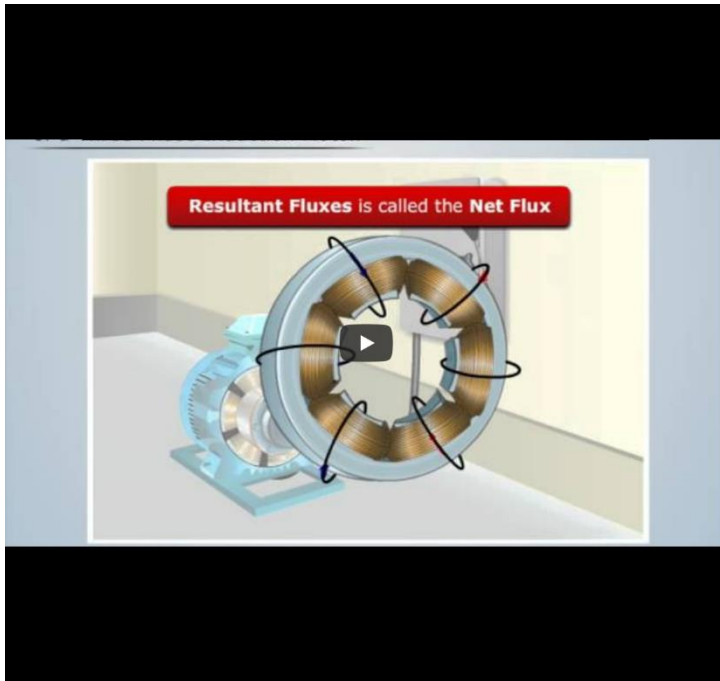
Video based learning is learning that uses videos as the medium of knowledge transfer. With the help of Edpuzzle, Students has to answer the questions during video-based learning. With the help of this activity, we can easy monitor the student engagement.

**Date: 6.07.2023**

**No. of Students Participated: 59**

**Photos:**





OPEN ENDED QUESTION

What is the working principle of Three Phase Induction Motor?

Rewatch

Skip

Submit



## BVRIT HYDERABAD College of Engineering for Women Department of Electrical and Electronics Engineering

**Name of the Activity: CROSSWORD**

**Faculty Name: M Sandeep Kumar**

**Class: II – II /EEE**

**Academic Year: 2022-23**

**Subject Name: Electrical Machines-II**

**Topic: Crossword-Activity Based Learning**

**Brief Write – Up**

Crossword puzzles provide students with an opportunity to evaluate their knowledge and require students to pay attention to terminology as they need to spell each word correctly.

**Date: 12.08.2023**

**No. of Students Participated: 59**

**Photos:**

**Crossword**

Your score is 36%.  
Some of your answers are incorrect. Incorrect squares have been blanked out.

Across: 2: In which motor, Rotor conductors are connected via sliprings.  Enter Hint

Down: 2: In which motor, rotor conductors are short circuited through endrings.  Enter Hint

		S	T	A	T	O	R
		L					
2		I					
		P					
3							





**(Format 4: Activities and ICT tools)**



**BVRIT HYDERABAD College of Engineering for Women  
Department of Electronics and Communication Engineering**

**Name of the Activity:** Quiz in Moodle Portal

**Faculty Name:** Ms.K.Bhavya

**Class:** IV – II / EEE

**Academic Year:** 2022-23 II Sem

**Subject Name:** Power Quality & FACTS

**Topic:** Power Quality Issues in the Power System

**Brief Write - Up:**

Learning Management System (LMS) that allows us to add the extra tools needed for teaching and learning activities is Moodle. One effective method for diagnosing and monitoring a student's performance with a particular sort of information is a quiz. By making good use of this tool, you may improve student performance and the efficacy of your course. The multiple-choice test consists of questions with easy, moderate, and hard difficulty levels. It is scheduled in Moodle with time constraints and notifies the students who were added to the course.

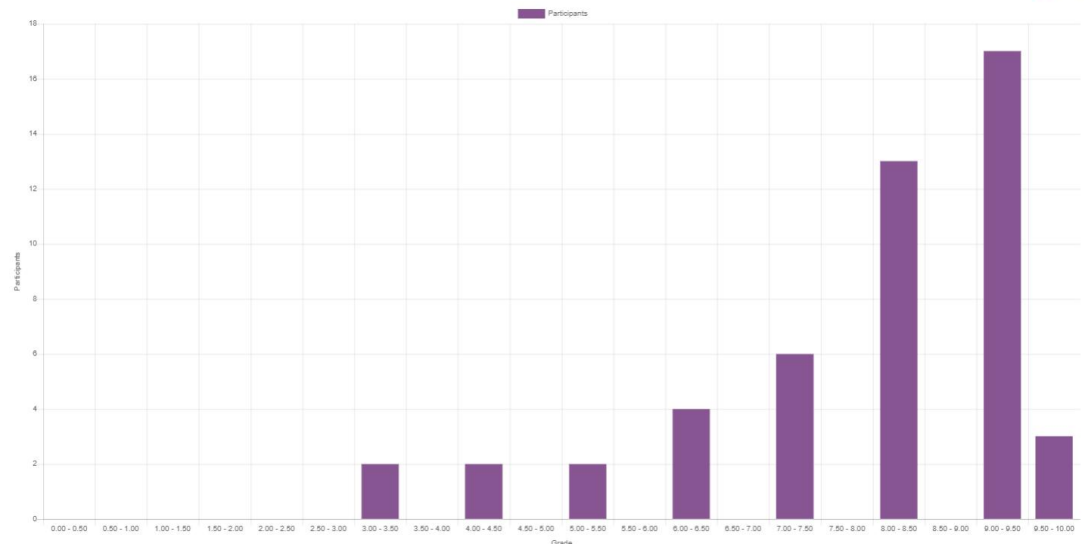
The following are some benefits of using an online quiz in Moodle. 1. It is possible to engage students remotely in an engaging way 2. A sizable number of students can take the test concurrently. 3. The alternatives and questions are not predetermined. 4. As soon as the quiz is finished, the results and summary containing the right answers may be shown. 5. Teachers can evaluate pupils' comprehension levels right away by using the findings.

**Date:** 17/02/2023

**No. of Students Participated:** 56

## Photos:

Overall number of students achieving grade ranges



Faculty Sign



**BVRIT HYDERABAD College of Engineering for Women**  
**Department of Electrical and Electronics Engineering**

**Name of the Activity: Quiz**

**Faculty Name:** Dr. Chava Sunil Kumar

**Class:** II – I / EEE

**Academic Year:** 2022-23

**Subject Name:** Electrical Machines - I (EM - I)

**Topic:** Pre-Requisites, Unit-I, Unit-II, Unit-IV, Unit-V of EM-I

**Date:** 30 November 2022, 11 January 2023, 21 January 2023. 26 March 2023. 26 March 2023.

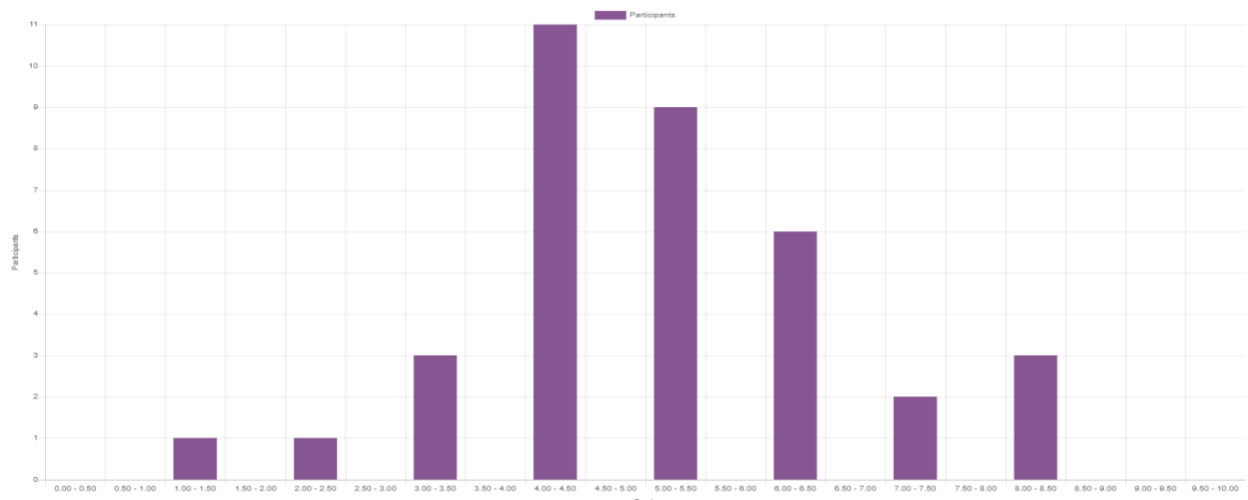
**Brief Write-up**

Moodle is one of the Learning Management System (LMS) where we can incorporate required additional tools which are used for teaching learning activities. Quiz is one of the powerful tool to monitor and diagnose the student performance with certain types of knowledge. Using this tool effectively can boost your course's effectiveness, and promote student performance. The quiz is scheduled in the Moodle with time limits and informed the same who students who were added in the Moodle course and the quiz is consisting of Multiple-choice questions with easy, moderate and hard levels.

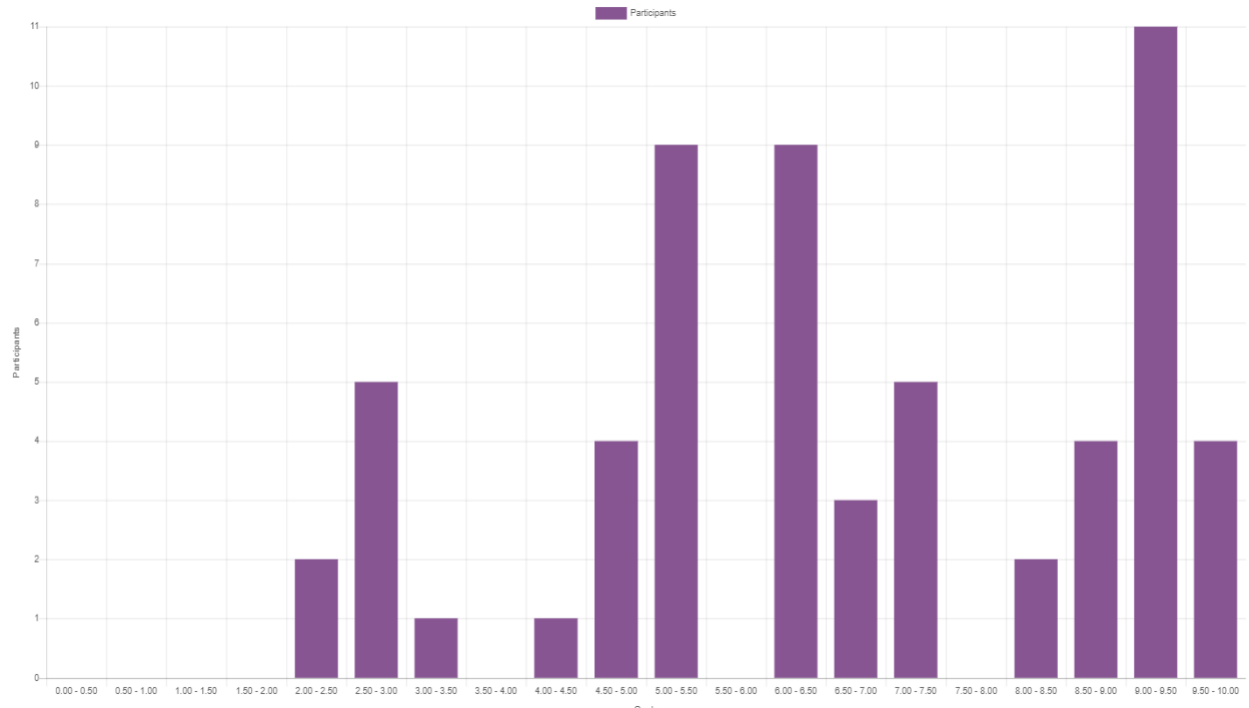
The advantages of Online Quiz in Moodle are as follows.

1. Students can be engaged remotely in an attractive mode
2. At the same time large number of students can take the test.
3. The questions and options are randomized.
4. Results and summary of quiz with correct options can be displayed immediately after completing the quiz.
5. Faculty can analyze the students understanding levels with the results immediately.

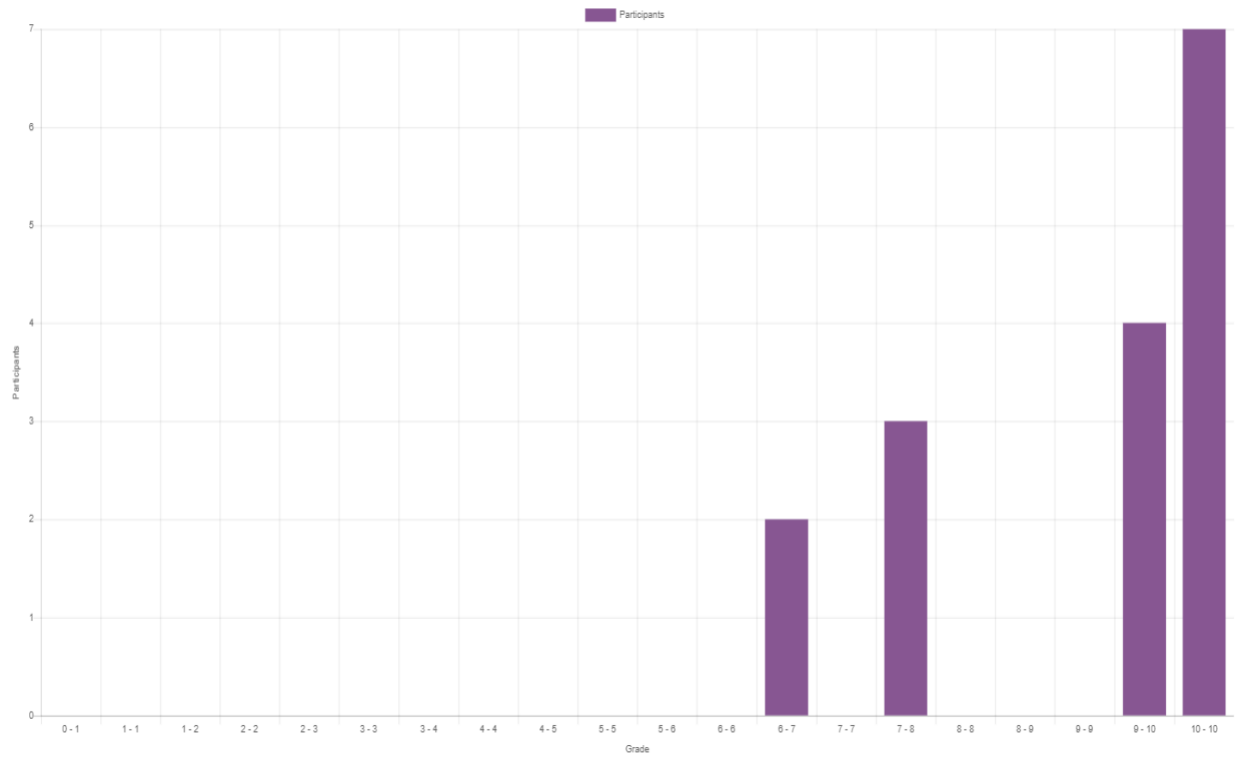
**Pre Requisites Quiz, No. of Students participated: 36**



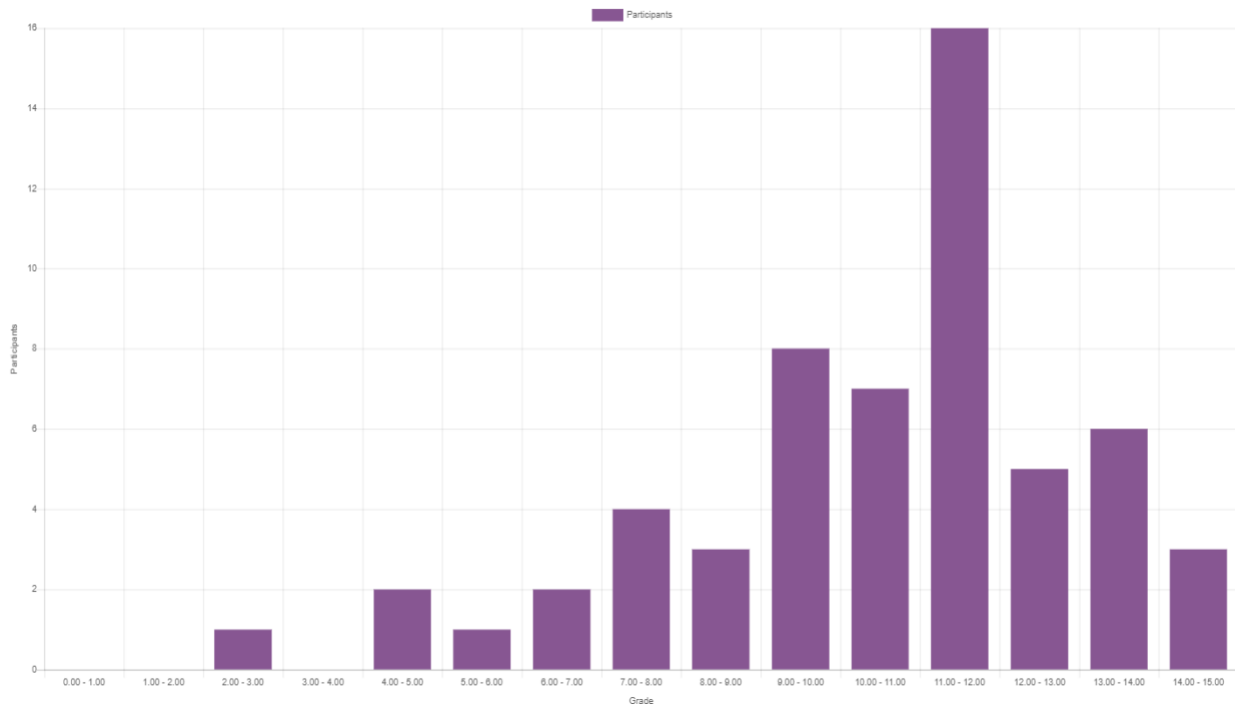
**Unit-I Quiz, No. of Students participated: 60**



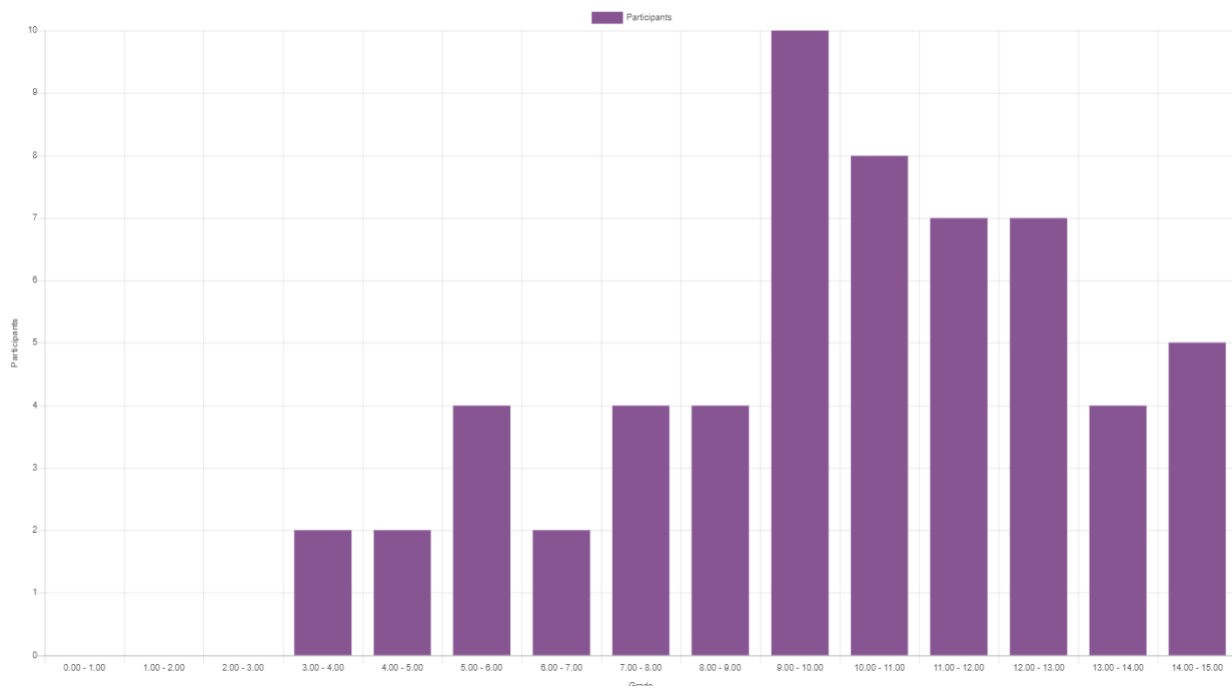
**Unit-II Quiz, No. of Students participated: 18**



**Unit-IV Quiz, No. of Students participated: 62**



**Unit-V Quiz, No. of Students participated: 60**





**BVRIT HYDERABAD College of Engineering for Women**  
**Department of Electrical and Electronics Engineering**

**Name of the Activity: Quiz**

**Faculty Name:** Dr. Chava Sunil Kumar

**Class:** II – II / EEE

**Academic Year:** 2022-23

**Subject Name:** Power System - I

**Topic:** Unit-I, Unit-II, Unit-III, Unit-IV, Unit-V of Power System - I

**Date:** 28 June 2023, 7 July 2023, 2 September 2023, 2 September 2023, 2 September 2023

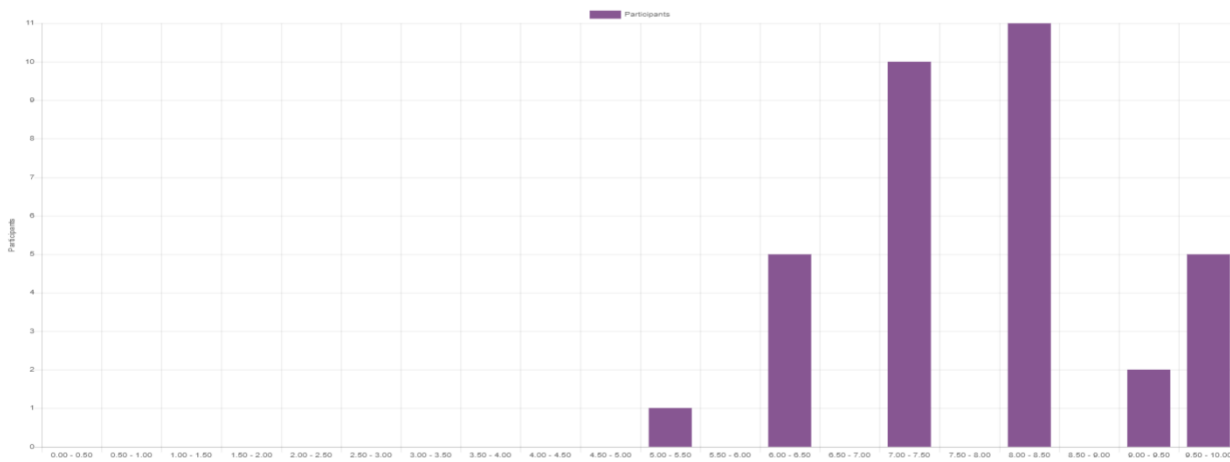
**Brief Write-up**

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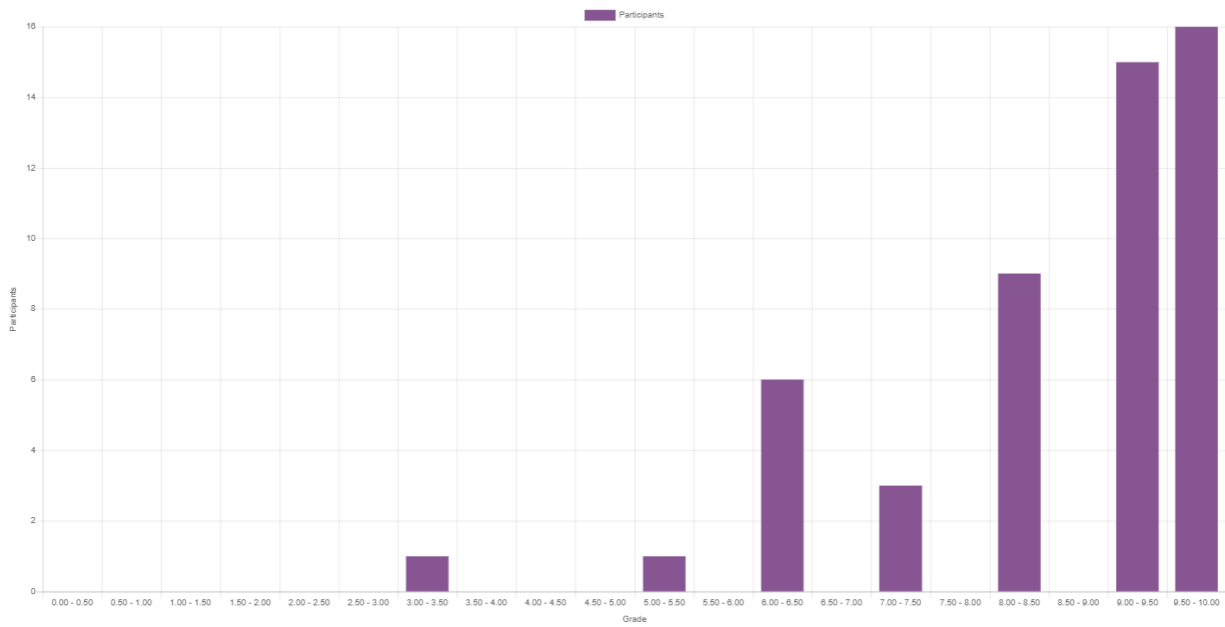
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5. Faculty can analyze the students understanding levels with the results immediately.

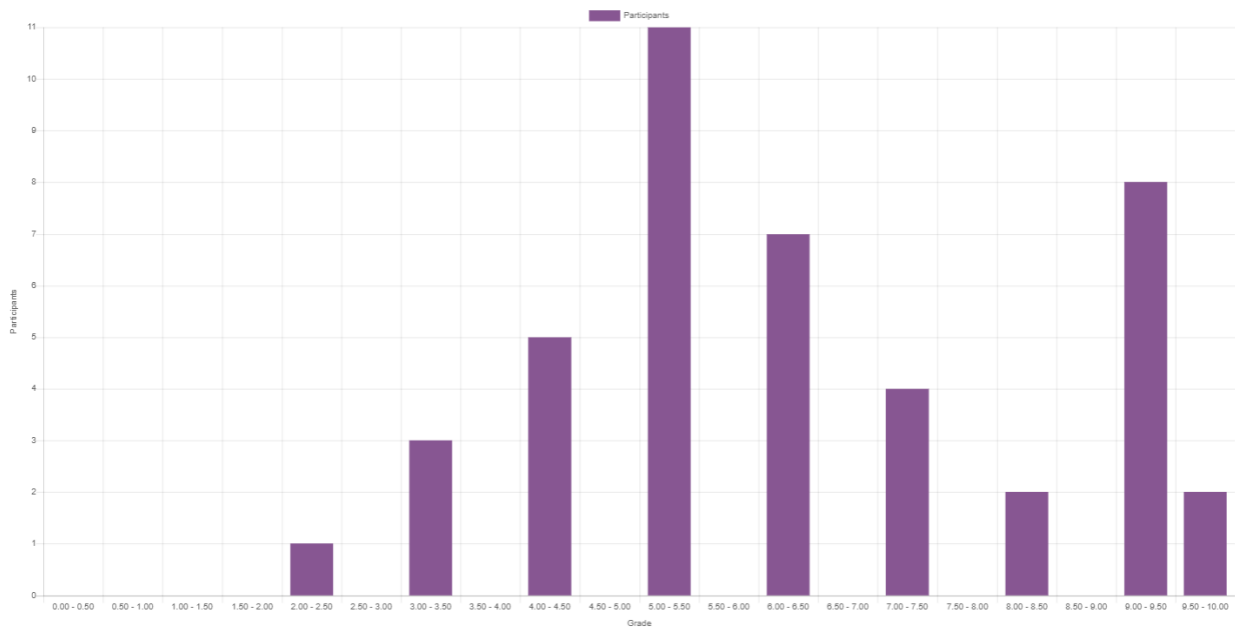
**Unit – I Quiz, No. of Students participated: 36**



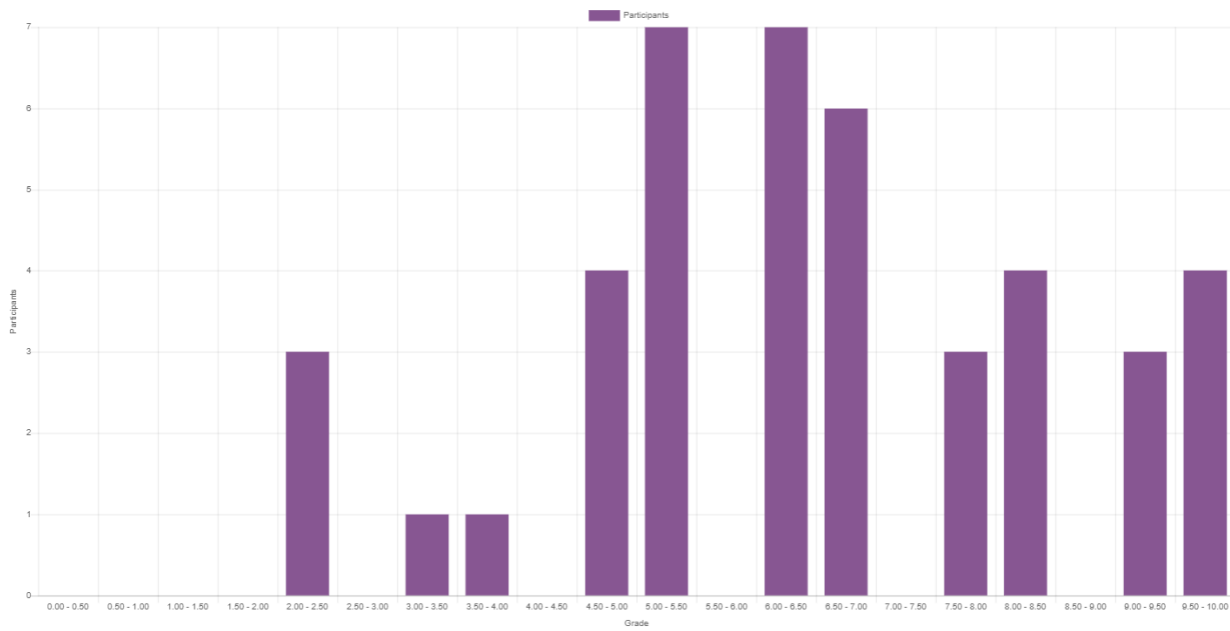
## Unit-II Quiz, No. of Students participated: 56



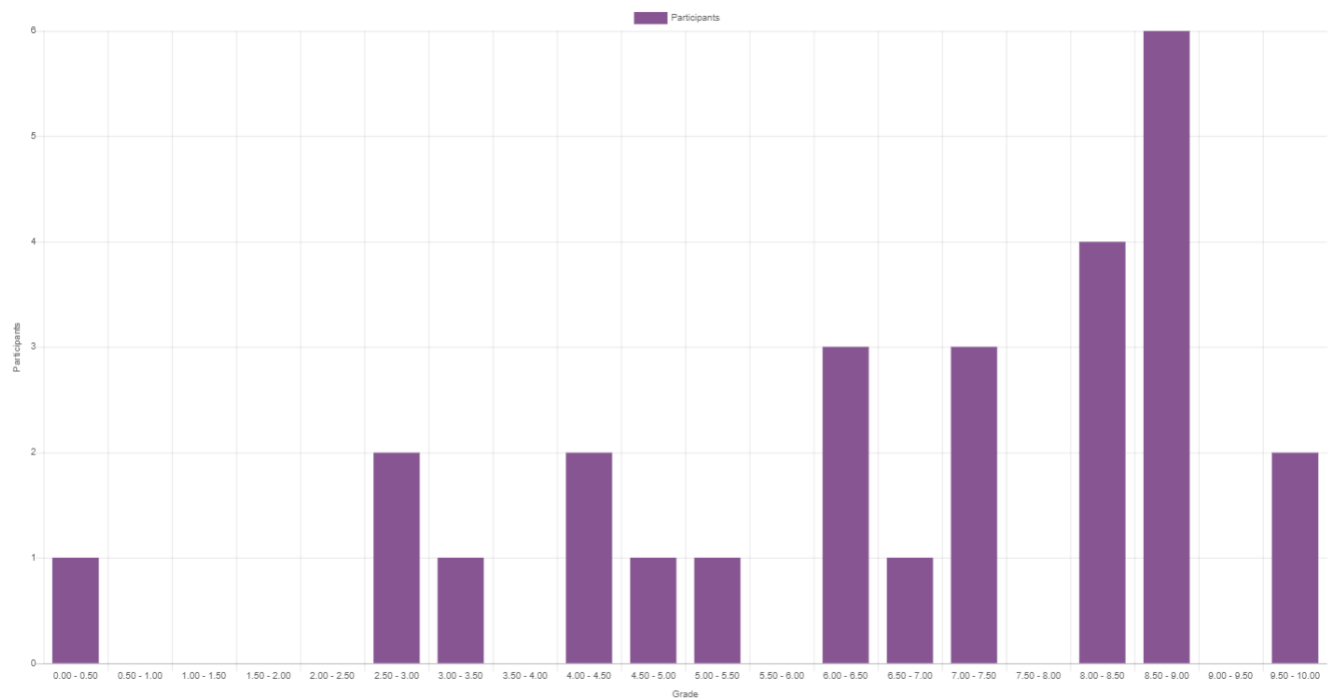
## Unit-III Quiz, No. of Students participated: 44



**Unit-IV Quiz, No. of Students participated: 50**



**Unit-V Quiz, No. of Students participated: 30**





**(Format 4: Activities and ICT tools)**



**BVRIT HYDERABAD College of Engineering for Women  
Department of Electrical and Electronics Engineering**

**Name of the Activity:** Learning Basic Knowledge and Skills with Practical Exposure

**Faculty Name:** Ms.B.Sujatha, Associate Professor , EEE Department

**Class:** III-II/ EEE

**Academic Year:** 2022-2023 II Sem

**Subject Name:** Wind and Solar Energy Systems (WSES)

**Topic:** 1.Series and Parallel Connection of PV panels, I-V and P-V Characteristics .  
2. Solar PV Tracking using Tinkercad and MATLAB Softwares

**Date:** 13/03/2023 to 16/03/2023

**Brief Write – Up:**

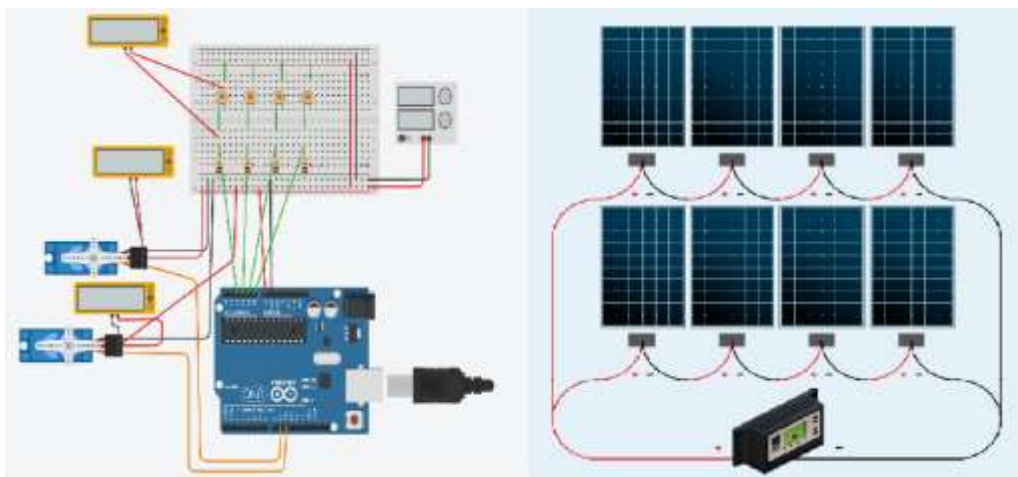
“Learning is more effective when it is Active rather than Passive”. These sessions cover Acquiring Basic knowledge through Practical Exposure and Betterment of Academic Results in WSES subject . Prerequisites for the session are MATLAB Onramp Course and Tinkercad Software Learning

**Outcomes:**

- 1.These activities Retain Information for a Longer Period of Time.
- 2.Active Learning.
3. Understand the significance of being ready to learn new tools in the Work environment.

**No. of Students Participated:** 55

**Photos:**



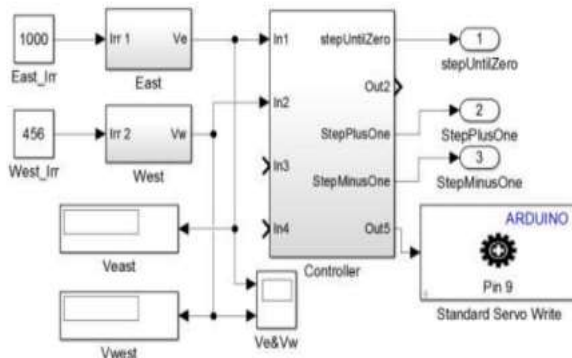
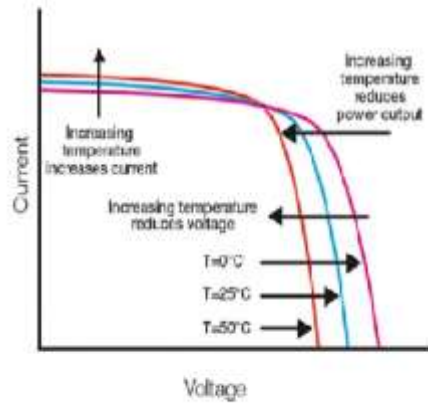
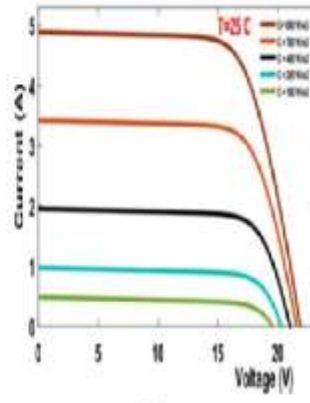
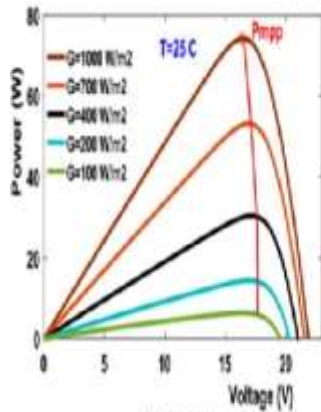
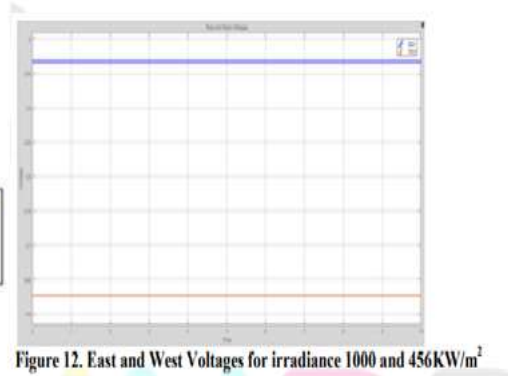


Figure . Integrated circuit of the solar tracker in MATLAB/SIMULINK



## Assessment Questions:

1. How much watt Solar Panel You need for Solar Appliances

2. How to design Solar PV System including Battery

3. Required No of Solar Panels (Series or Parallel) ?

4. How to plot a graph in MATLAB

5. Issues in the Integration of Renewable Energy Sources

6. What is Tinkercad?

## Feedback – Questionnaire

1. What motivates you to learn more?

3. Are you satisfied with the Teaching-Learning System with Practical Exposure?

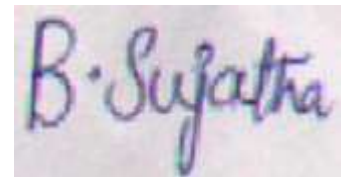
2. Were there any barriers to learning with Practical Exposure?

4. Two key Takeaways with Practical Exposure.

5. Are you expecting in future Hands on Session to make more active learning?

## Assessment Result

<b>Total No of Students</b>	<b>65</b>
Total No of Students taken the assessment	55
Students Scored less than 70%	53
Students Scored more than 70%	2
Percentage of Attainment	<b>96.36%</b>



B.Sujatha  
Associate Professor  
EEE Department

**(Format 4: Activities and ICT tools)**



**BVRIT HYDERABAD College of Engineering for Women  
Department of Electrical and Electronics Engineering**

**Name of the Activity:** Technical Cross Word Puzzle

**Faculty Name:** Ms.B.Sujatha, Associate Professor , EEE Department

**Class:** III-II/ EEE

**Academic Year:** 2022-2023 II Sem

**Subject Name:** Wind and Solar Energy Systems (WSES)

**Topic:** All Units

**Date:** 24<sup>th</sup> June 2023.

**Brief Write – Up:**

Cross word puzzles in general are a great help to improve one's vocabulary. But this idea is used to improve the student's caliber to relate various terms and their definitions. This need not be limited to definitions, but can be extended to applications as well. This activity will be of good help for the students to answer short answer and multiple choice questions with ease.

**Preparation / Prerequisites:**

Students were asked to come with any reliable material / information for the subject like text books or web resources.

**Observations:**

1. Teams chose their own topic.
2. Students found it fun and useful making the puzzle.
3. Students got a clear understanding on the definitions before including them in the puzzle.
4. The above point helped the students to discuss with their peers and teacher as well.

**Learning Outcomes:**

1. These activities Retain Information for a Longer Period of Time.
2. Active Learning.
3. Understand the significance of being ready to learn new tools in the Work environment.

**No. of Students Participated:** 55

Photos:

## WINDMILLS

S	T	W	E	R	T	Y	U	I	O	P	A
H	O	R	I	Z	O	N	T	A	L	I	L
A	W	L	S	U	P	F	E	L	Q	W	E
F	E	T	A	A	S	D	F	G	H	J	X
T	R	V	E	R	T	I	C	A	L	T	A
Z	X	C	V	E	E	G	H	H	Y	I	N
L	V	Y	U	Y	T	N	S	O	E	O	D
S	I	N	B	L	A	D	E	C	H	A	R
W	I	N	D	P	O	W	E	R	S	O	I
V	O	F	X	O	B	R	A	E	G	L	A
K	O	N	S	D	A	P	A	C	H	Y	N
D	R	I	V	E	T	R	A	I	N	K	D

1. Wind is a form of solar energy.
2. Types of wind turbine
  - a) Horizontal
  - b) Vertical
3. Wind power describes the process by which the wind is used to generate mechanical power or electricity.
4. Horizontal turbine components include:
  - a) Blade
  - b) Drive train
  - c) Tower
5. Vertical turbine components include:
  - a) Gear box
  - b) Shaft
6. Who invented windmill, Alexandria.

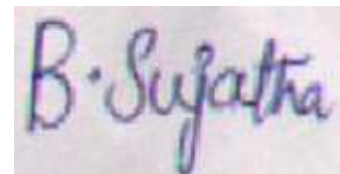
### Batch 4

20WH1A0204 Ms. G. VIDYADHARI

21WH5A0206 Ms. S. SAI MEGHANA

21WH5A0212 Ms. A. VANITHA

21WH5A0216 Ms. U. PAVANIKA



B.Sujatha

Associate Professor

EEE Department