



Sri Devaraj Urs Educational Trust (R.), Tamaka, Kolar.
R. L. JALAPPA INSTITUTE OF TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to VTU, Belagavi)
Kodigehalli, Doddaballapur- 561 203

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 19/06/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23 EVEN
Subject Name and Subject Code	Digital Signal Processing and 21EC42
Faculty Name	Prof. Aarthi V
Semester	4 th Semester
Name of the Innovative Teaching Methods used	Flipped learning method
Short Description of the Innovative Teaching Activity.	The objective of conducting this Flipped learning method event is to know the understanding level and the presentation skills of students about the basic Computation of DFT problem. The conducted event was Flipped learning method, where students are given a small problem and asked to work out on the black board. The student will explain the steps while working out the problem for a given time limit, so the student's self-confidence will be improved and at the same time stage fear will be eliminated.



ECE Block, 8G2F+286, RLJIT Campus Rd, Doddaballapura, Karnataka 561203, India

Latitude

13.30007712°

Longitude

77.52330481°

Local 10:02:11 AM

GMT 04:32:11 AM

Altitude 907 meters

Monday, 12.06.2023

Note : flip teaching method used in DSP class for IV sem A sec ECE students, RLJIT

Number of students got benefited.

58

Number of students involved in the activity.

1



Venue of the Activity

Class Room No.: 405

Schedule of the Event

12/06/2023

Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	No
Contents of the Event	The event contains Flipped learning method activity and the topic given for the student was computation of 4-point DFT for a given sequence.
Impact Analysis after using this Innovative Teaching Methods used.	Our students have expressed this innovative Teaching Methods as quite interesting and they understood the concept very quickly when their classmates teach them in their own way.
Feedback from the students	Our students have expressed Flipped Teaching Method is interesting and they can understand the concept very clearly.
Relevance to PO and PSO	PO1, PSO1.
Any comments or Suggestions from the Programme Co-ordinator/ HoD	This activity should be extended for next batch of students for theory as well as integrated lab too .

Signature of the Faculty	Signature of the HOD
	 HOD Department of Electronics and Communication Engineering R.L. Jalappa Institute of Technology Kodigehalli, Doddaballapur Bangalore Rural District-561 203



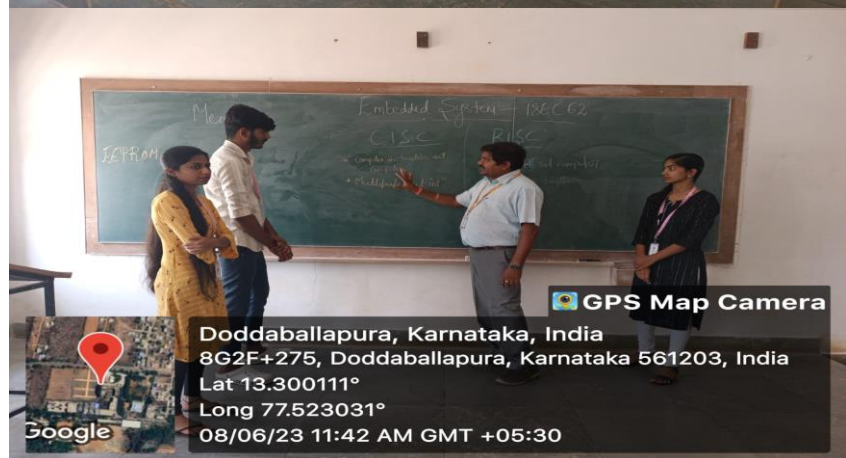
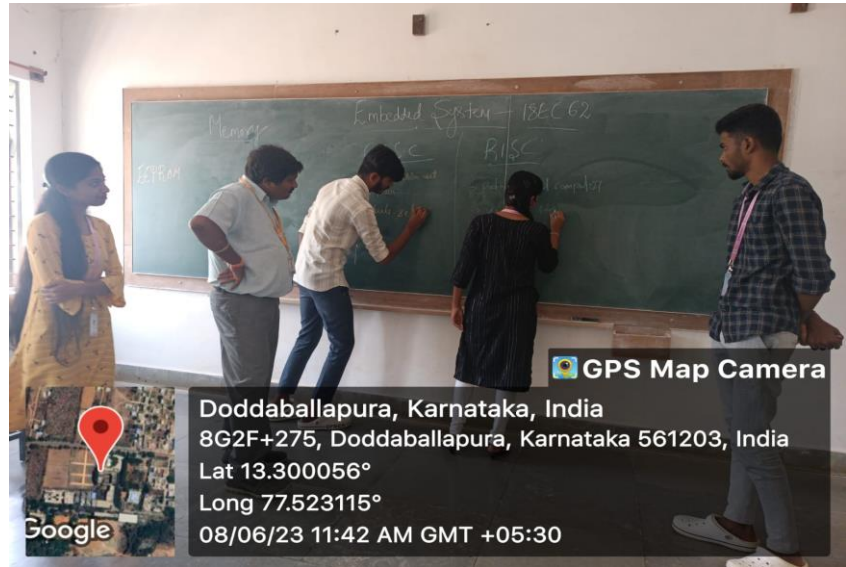
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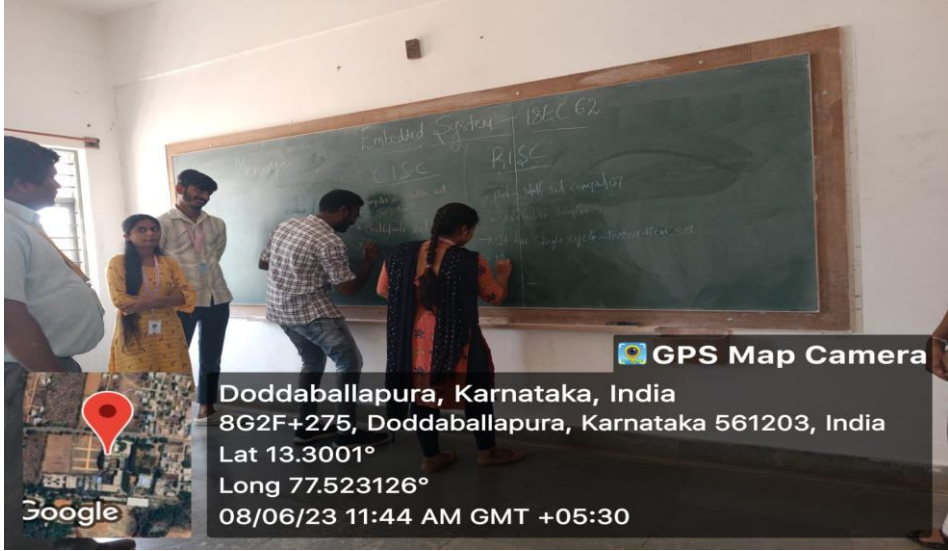
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 09/06/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED

Academic Year	2022-23 EVEN
Subject Name and Subject Code	Embedded systems 18EC62.
Faculty Name	Dr. Anil Kumar C
Semester	6 th Semester
Name of the Innovative Teaching Methods used	Group discussion on architecture of computing systems
Short Description of the Innovative Teaching Activity.	The objective of conducting this technique is to know the understanding level of students about the architecture of computing systems. The conducted event was interactive, where students will be delivered with explanation of the different architecture Then randomly picked students into two different groups and avenue was provided to discuss regarding the topic individually to know the understanding levels of the content. The questions and answering options has been monitored by the other set of students. The correct answers were suitably rewarded. Students enjoyed and understood the concepts of embedded systems by knowing repeating the same content what was discussed using group discussion techniques.



	 <p>GPS Map Camera Doddaballapura, Karnataka, India 8G2F+275, Doddaballapura, Karnataka 561203, India Lat 13.3001° Long 77.523126° 08/06/23 11:44 AM GMT +05:30</p>
Number of students got benefited.	28
Number of students involved in the activity.	28
Venue of the Activity	Class Room No.: 308
Schedule of the Event	08/06/2023
Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	No
Contents of the Event	Architecture of the computing systems in embedded systems are explained and recreated with the same students
Impact Analysis after using this Innovative Teaching Methods used.	The interest level of the students are enhanced by gathering more point of concepts interest
Feedback from the students	Our students have expressed the group discussion technique method was useful in making the concept more clear than the conventional chalk and talk method.
Relevance to PO and PSO	PO1, PO5, PSO2,

Any comments or Suggestions from the Programme Co-ordinator/ HoD

The continued method of innovative techniques can be repeatedly used for all the possible topics in the syllabus.

Signature of the Faculty



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Kodlgehalli, Doddaballapur
Bangalore Rural District-561 203

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 09/06/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED

Academic Year	2022-23 EVEN
Subject Name and Subject Code	Embedded systems 18EC62.
Faculty Name	Dr. Anil Kumar C
Semester	6 th Semester
Name of the Innovative Teaching Methods used	Fish bone technique
Short Description of the Innovative Teaching Activity.	The objective of conducting this technique is to know the understanding level of students about the basic memory systems. The conducted event was interactive, where students will be delivered with explanation of the different memories. Then each student is individually questioned to know the understanding levels of the content. The questions and answering options has been monitored by the other set of students. The correct answers were suitably rewarded. Students enjoyed and understood the concepts of embedded systems by knowing repeating the same content what was discussed using fish bone techniques.



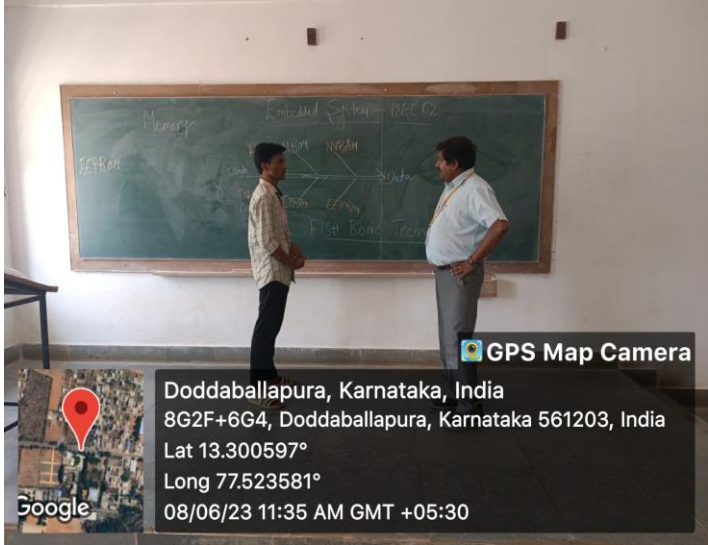
Doddaballapura, Karnataka, India
8G2F+3J4, NH 207, Doddaballapura, Karnataka 561203, India
Lat 13.300148°
Long 77.523723°
08/06/23 11:35 AM GMT +05:30





Doddaballapura, Karnataka, India
ECE Block, 8G2F+286, RLJIT Campus Rd, Doddaballapura, Karnataka 561203, India
Lat 13.299998°
Long 77.523333°
08/06/23 11:34 AM GMT +05:30



Doddaballapura, Karnataka, India
07, Doddaballapura, Karnataka 561203, India
Lat 13.300871°
Long 77.523678°
08/06/23 11:33 AM GMT +05:30

	
Number of students got benefited.	28
Number of students involved in the activity.	28
Venue of the Activity	Class Room No.: 308
Schedule of the Event	08/06/2023
Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	No
Contents of the Event	Memory systems in embedded systems are explained and recreated with the same students
Impact Analysis after using this Innovative Teaching Methods used.	The interest level of the students are enhanced by gathering more point of concepts interest
Feedback from the students	Our students have expressed the fish bone technique method was useful in making the concept more clear than the conventional chalk and talk method.
Relevance to PO and PSO	PO1, PO5, PSO2,
Any comments or Suggestions from the Programme Co-ordinator/ HoD	The continued method of innovative techniques can be repeatedly used for all the possible topics in the syllabus.

Signature of the Faculty	Signature of the HOD
 <p data-bbox="227 399 673 535">HOD Department of Electronics and Communication Engineering R.L. Jalappa Institute of Technology Kodlgehalli, Doddaballapur Bangalore Rural District-561 203</p>	 <p data-bbox="982 399 1429 535">HOD Department of Electronics and Communication Engineering R.L. Jalappa Institute of Technology Kodlgehalli, Doddaballapur Bangalore Rural District-561 203</p>



Date: 03/06/2023

CIRCULAR

21EC44: Communication Theory ICT Activities

It is hereby informed to all the IV Semester, 'B' Section ECE students that Pick and Speak activity is scheduled on 07/06/2023 at 10.15am in the Class Room No.: 407, ECE Block. The topics are related to the fundamentals of Communication Theory like:

- Elements of communication system
- Advantages of modulation
- Sources of information
- Types of modulation
- Introduction to Fourier Transform
- Radio Broadcasting
- Television Broadcasting
- Radio communication
- Mobile Communication

Course Coordinator

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 07/06/2023



DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23 EVEN
Subject Name and Subject Code	Communication Theory and 21EC44
Faculty Name	Dr. Harish S.
Semester	4 th Semester, 'B' Section
Name of the Innovative Teaching Methods used	Pick and Speak
Short Description of the Innovative Teaching Activity.	<p>The objective of conducting this Pick and Speak event is to know the understanding level and the presentation skills of students about the basic communication systems. The conducted event was Pick and Speak, where students pick a topic from bowl. The student will speak about the topic for (3 to 5) minutes and explore the knowledge about the topic.</p> 



Number of students got benefited.	40
Number of students involved in the activity.	8
Venue of the Activity	Class Room No.: 407
Schedule of the Event	07/06/2023
Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	No

Contents of the Event	The event contains the Pick and Speak activity and the some of the topics given for the students are: <ul style="list-style-type: none"> • Elements of Communication system • Advantages of Modulation • Introduction to Fourier Transform • Sources of information • Types of Modulation • Radio Broadcasting • Television Broadcasting • Mobile Communication
Impact Analysis after using this Innovative Teaching Methods used.	Our students have expressed this innovative Teaching Methods is very interesting and they can understand the concept very quickly.
Feedback from the students	Our students have expressed this Pick and Speak Innovative Teaching Method is very interesting and they can understand the concept very clearly.
Relevance to PO and PSO	PO1, PSO2.
Any comments or Suggestions from the Programme Co-ordinator/ HoD	This activity should be extended for next batch of students.

Signature of the Faculty	Signature of the HOD
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Bengaluru (Rural), Karnataka, India
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website : <https://rljit.in> | email : principal@rljit.in | Fax:080-27625380
Department of Electronics and Communication Engineering

Date: 02/06/2023

CIRCULAR

21EC44: Communication Theory ICT Activities

It is hereby informed to all the IV Semester, 'B' Section ECE students that an Online Live Quiz is scheduled on 07/06/2023 at 09.55am in the Class Room No.: 407, ECE Block. The quiz is about the Basics of Communication Theory.

Course Coordinator

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Note:- To participate in the Online Live Quiz, students are informed to bring a smart phone.




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 07/06/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23 EVEN
Subject Name and Subject Code	Communication Theory and 21EC44
Faculty Name	Dr. Harish S.
Semester	4 th Semester
Name of the Innovative Teaching Methods used	Online live Quiz
Short Description of the Innovative Teaching Activity.	<p>The objective of conducting this quiz is to know the understanding level of students about the basic communication systems. The conducted event was online live quiz, where students will get the questions and answering options to their smart phone. They can individually reply to each question from their smart phones. The questions and answering options will be displayed on the screen. The correct answers were displayed on the screen. Students enjoyed and understood the concepts of communication theory by knowing the correct answers.</p> <p>Online Quiz link: https://www.menti.com/alvpo7z4z4im</p> 



Number of students got benefited.

Number of students involved in the activity.

Venue of the Activity

Schedule of the Event

Whether the work can be Reproduced and Reviewed.

Details are available in the college website.

Contents of the Event

30

30

Class Room No.: 407

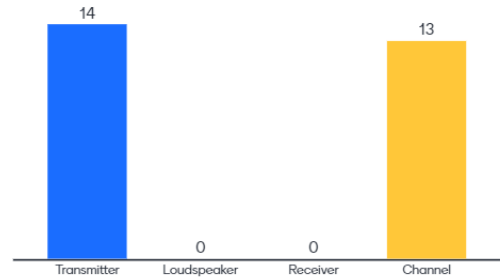
07/06/2023

Yes

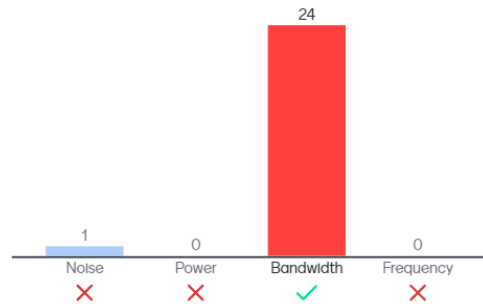
No

Quiz questions and answers.

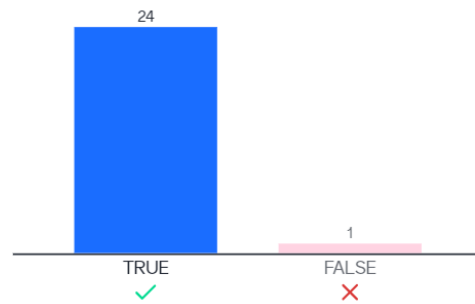
1. Medium which sends information from source to receiver is called _



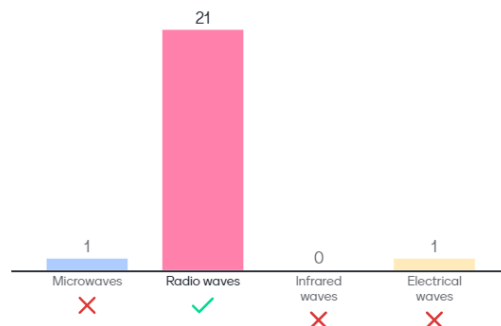
2. Data transmitted for a given amount of time is called _____



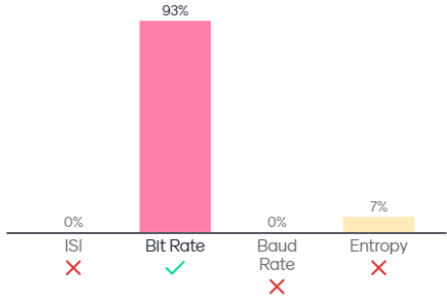
4. Telephones send information through wires in form of electrical signals.





5. Cell phones send information in form of



Voting is closed
Press to open voting

	<p>10. The number of bits conveyed or processed for unit time is called ____</p>  <table border="1"> <thead> <tr> <th>Option</th> <th>Percentage</th> <th>Correct</th> </tr> </thead> <tbody> <tr> <td>ISI</td> <td>0%</td> <td>✗</td> </tr> <tr> <td>Bit Rate</td> <td>93%</td> <td>✓</td> </tr> <tr> <td>Baud Rate</td> <td>0%</td> <td>✗</td> </tr> <tr> <td>Entropy</td> <td>7%</td> <td>✗</td> </tr> </tbody> </table>	Option	Percentage	Correct	ISI	0%	✗	Bit Rate	93%	✓	Baud Rate	0%	✗	Entropy	7%	✗
Option	Percentage	Correct														
ISI	0%	✗														
Bit Rate	93%	✓														
Baud Rate	0%	✗														
Entropy	7%	✗														
<p>Impact Analysis after using this Innovative Teaching Methods used.</p>	<p>Students have shown more interesting in learning the subject.</p>															
<p>Feedback from the students</p>	<p>Our students have expressed this Online live Quiz Innovative Teaching Method is very interesting and they can understand the concept very clearly.</p>															
<p>Relevance to PO and PSO</p>	<p>PO1, PO5, PSO2,</p>															
<p>Any comments or Suggestions from the Programme Co-ordinator/ HoD</p>	<p>The content should be made readily available for the students.</p>															

Signature of the Faculty	Signature of the HOD
	 <p>HOD Department of Electronics and Communication Engineering R.L. Jalappa Institute of Technology Kodigehalli, Doddaballapur Bangalore Rural District-561 203</p>



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website : <https://rljit.in> | email : principal@rljit.in | Fax:080-27625380
Department of Electronics and Communication Engineering

Date: 05/06/2023

CIRCULAR

21EC44: Communication Theory ICT Activities

It is hereby informed to all the IV Semester, 'B' Section ECE students that Role Play on the topic "Amplitude Modulation" of Module-1 will be played on 09/06/2023 at 09.00am in the Class Room No.: 407, ECE Block.

Course Coordinator

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Note:- To participate in the role play, students are informed to make charts containing equations, waveforms and spectrums related to the Amplitude modulation.





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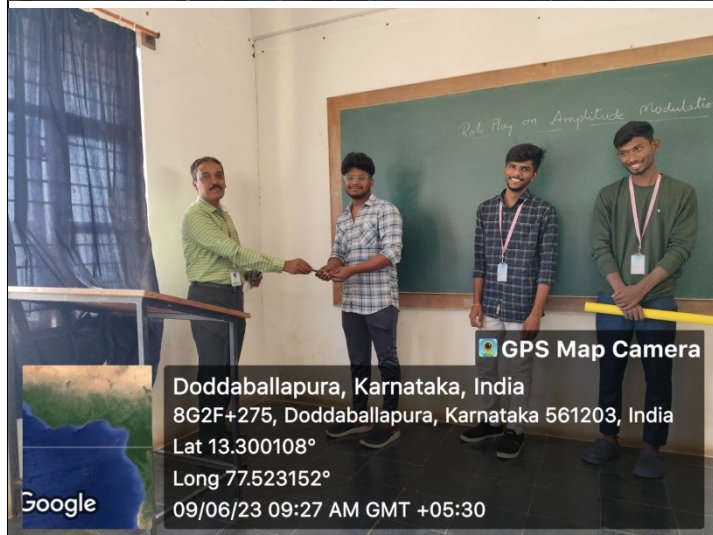
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 09/06/2023



DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23 EVEN
Subject Name and Subject Code	Communication Theory and 21EC44
Faculty Name	Dr. Harish S.
Semester	4 th Semester
Name of the Innovative Teaching Methods used	Role Play
Short Description of the Innovative Teaching Activity	<p>Role play was carried out by the students to understand concepts of amplitude modulation. The role play starts with the definitions of communication, modulation and amplitude modulation. It describes the time domain and frequency domain description of amplitude modulation.</p> 

Number of students got benefited.	46
Number of students involved in the activity.	5
Venue of the Activity	Class Room No.: 407
Schedule of the Event	09/06/2023
Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	No
Contents of the Event	<p>The event contains the Role Play activity on the concepts of amplitude modulation. The role play describes time domain and frequency domain analysis.</p>   <p>GPS Map Camera Doddaballapura, Karnataka, India 8G2F+275, Doddaballapura, Karnataka 561203, India Lat 13.300108° Long 77.523152° 09/06/23 09:28 AM GMT +05:30</p>



Impact Analysis after using this Innovative Teaching Methods used.	Our students have expressed this innovative Teaching Methods is very interesting and they can understand the concept very quickly.
Feedback from the students	Our students have expressed this Role Play Innovative Teaching Method is very interesting and they can understand the concept very clearly.
Relevance to PO and PSO	PO1, PSO2.
Any comments or Suggestions from the Programme Coordinator/ HoD	This activity should be extended for next batch of students.

Signature of the Faculty	Signature of the HOD
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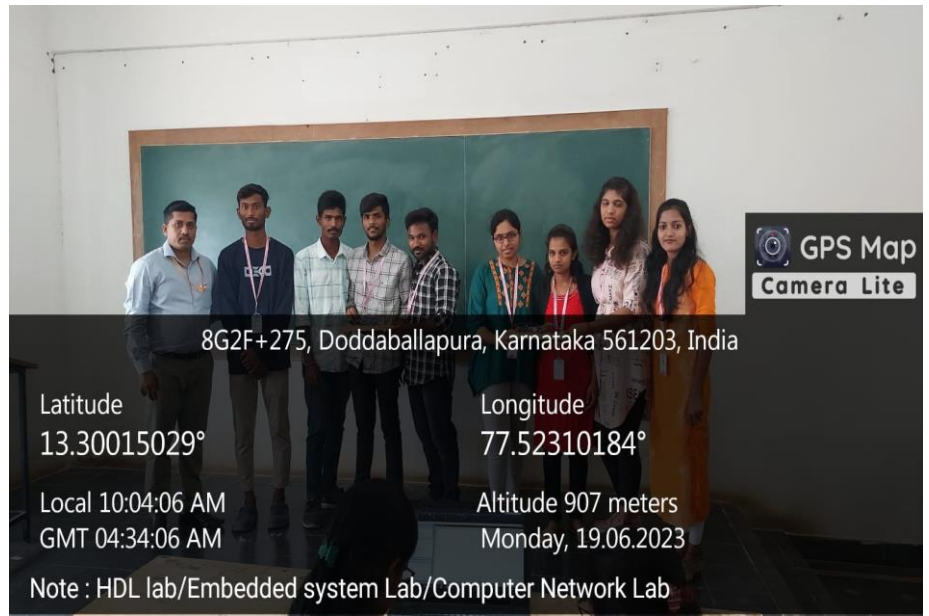
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 19/06/2023



DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23 EVEN
Subject Name and Subject Code	Digital Signal Processing
Faculty Name	Dr.Madhu Chandra G
Semester	4 th
Name of the Innovative Teaching Methods used	Project Based Learning
Short Description of the Innovative Teaching Activity.	<p>The objective of conducting this Project-based learning (PBL) involves students designing, developing, and constructing hands-on solutions to a problem. The educational value of PBL is that it aims to build students' creative capacity to work through difficult or ill-structured problems, commonly in small teams.</p> 



Number of students got benefited.	50
Number of students involved in the activity.	10
Venue of the Activity	Class room
Schedule of the Event	Monday 19/6/2023
Whether the work can be Reproduced and Reviewed.	
Details are available in the college website.	

Contents of the Event	The event contains automatic turn on and turn off of light and fans in class room using Matlab software. Hardware components <ul style="list-style-type: none"> • Lights, Fans, Relay, Darlington pair connection of the diodes (or) Processor, PCB Board etc. • Software: Matlab version 15
Impact Analysis after using this Innovative Teaching Methods used.	Our students have expressed this innovative Teaching Methods is very interesting and they can understand the concept very quickly.
Feedback from the students	Our students have expressed this Project Based Learning Innovative Teaching Method is very interesting and they can understand the concept very clearly.
Relevance to PO and PSO	PSO1, PSO2.
Any comments or Suggestions from the Programme Co-ordinator/ HoD	

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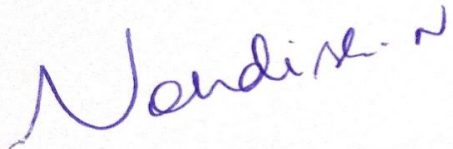
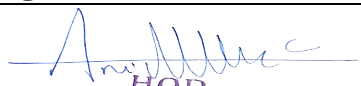
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DEPARTMENT OFECE..... Engg

Date :09/06/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23
Subject Name and Subject Code	Microwave and Antennas
Faculty Name	Prof. Nandish. N
Semester	VI
Name of the Innovative Teaching Methods used	Group Discussion and Quiz
Short Description of the Innovative Teaching Activity.	<p>A Group Discussion was conducted on how supply chain management has been affected due to Russia-Ukraine war and inflation and globalization of supply chain management</p> <p>Then a quiz was conducted on Antenna – Basics of Antenna and Types of antennas.</p>
Number of students got benefited.	28

Number of students involved in the activity.	28
Venue of the Activity	Class Room Number: 308
Schedule of the Event	10.00 AM to 11:30 AM
Whether the work can be Reproduced and Reviewed.	YES
Details are available in the college website.	No
Contents of the Event	
Impact Analysis after using this Innovative Teaching Methods used.	The innovative method was useful to the students in better understanding the subject and can be remembered for the examination.
Feedback from the students	Students are very happy and showed Positive attitude It was very interesting.
Relevance to PO and PSO	PO6
Any comments or Suggestions from the Programme Co-ordinator/ HoD	

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website : <https://rljit.in> | email : principal@rljit.in | Fax:080-27625380

Date: 12/04/2023

CIRCULAR

Python Application Programming – 18EC646

It is here by informed to all students of VI semester, that the Group discussion and simulation of python code will be conducted on 13/04/2023, in ES laboratory.

The topics covered are: Programs on Lists and Stings.

Subject Coordinator

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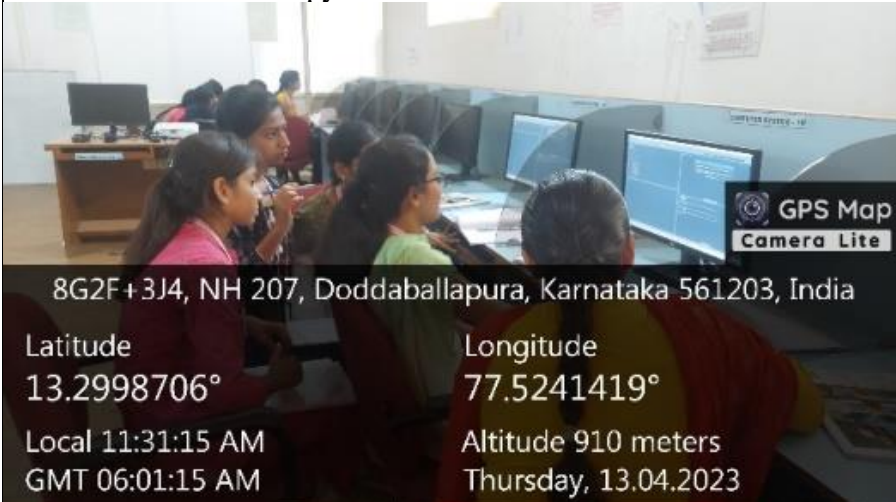
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

Date : 13/04/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23								
Subject Name and SubjectCode	Python application programming-18EC646								
Faculty Name	Lavanya Vaishnavi DA								
Semester	6								
Name of the Innovative Teaching Methods used	Group Discussion and Simulation								
Short Description of the Innovative Teaching Activity.	<p>A group Discussion and simulation session was conducted on 13/04/2023, Thursday as a part of teaching learning process for 6th semester students. The students were given the task to solve the Programs of Python (Lists and Strings). Students used the advanced tools like Anaconda-Spyder to simulate the results.</p>  <p>8G2F+3J4, NH 207, Doddaballapura, Karnataka 561203, India</p> <table><tr><td>Latitude</td><td>Longitude</td></tr><tr><td>13.2998706°</td><td>77.5241419°</td></tr><tr><td>Local 11:31:15 AM</td><td>Altitude 910 meters</td></tr><tr><td>GMT 06:01:15 AM</td><td>Thursday, 13.04.2023</td></tr></table>	Latitude	Longitude	13.2998706°	77.5241419°	Local 11:31:15 AM	Altitude 910 meters	GMT 06:01:15 AM	Thursday, 13.04.2023
Latitude	Longitude								
13.2998706°	77.5241419°								
Local 11:31:15 AM	Altitude 910 meters								
GMT 06:01:15 AM	Thursday, 13.04.2023								

	
Number of students got benefited.	27
Number of students involved in the activity.	27
Venue of the Activity	Laboratory
Schedule of the Event	13/04/2023, 11.00 am to 12.30 pm
Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	No
Contents of the Event	Programming Quest was conducted to write and simulate the code. Python programs related to “Lists and strings” were given to solve.
Impact Analysis after using this Innovative Teaching Methods used.	The students were able to understand the steps of simulation. Students were benefited with execution skills and problems solving ability. Students understood that the usage of anaconda and spyder tools. Students understood the indentation of loops and functions.
Feedback from the students	Students were curious and understood the importance of practical simulation in the labs.
Relevance to PO and PSO	PO --- PO5 PSO --- PSO1
Any comments or Suggestions from the Programme Co-ordinator/ HoD	The programme was conducted to give extra benefit to the students, the students enjoyed the program code writing part and completed the task in given time. Students were gifted with pens for completing the tasks.

Signature of the Faculty	Signature of the HOD
	 <p data-bbox="974 378 1380 546">HOD Department of Electronics and Communication Engineering R.L. Jalappa Institute of Technology Kodigehalli, Doddaballapur Bangalore Rural District-561 203</p>



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website : <https://rljit.in> | email : principal@rljit.in | Fax:080-27625380

Date: 09/06/2023

CIRCULAR

Python Application Programming – 18EC646

It is here by informed to all students of VI semester, that the student seminar will be conducted on 10/06/2023, in Class room: 308.

The topics covered are:

DSU in Tuple (by Koppela Karthikeya)

Errors in Lists (by Divya Shree.M.A)

Errors in strings (by Deekha G)

Creating dictionary for 6th sem Students (by Uppu Pawan Sathish)

Subject Coordinator

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Department of Electronics and
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Kodlgehalli, Doddaballapur
Bangalore Rural District-561 203


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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

Date : 10/06/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23
Subject Name and Subject Code	Python application programming-18EC646
Faculty Name	Lavanya Vaishnavi DA
Semester	6
Name of the Innovative Teaching Methods used	Seminar by students
Short Description of the Innovative Teaching Activity.	 <p>8G2F+275, Doddaballapura, Karnataka 561203, India</p> <p>Latitude 13.30012571° Longitude 77.52312406° Local 09:23:53 AM Altitude 907 meters GMT 03:53:53 AM Saturday, 10.06.2023</p>

	<p>Seminar was given by the students on the following topics:</p> <ol style="list-style-type: none"> 1. DSU in Tuple (by Koppela Karthikeya) 2. Errors in Lists (by Divya Shree.M.A) 3. Errors in strings (by Deekha G) 4. Creating dictionary for 6th sem Students (by Uppu Pawan Sathish) <p>Each student presented for about 10 minutes and simulated the related codes to demonstrate the same.</p>
Number of students got benefited.	28
Number of students involved in the activity.	4
Venue of the Activity	Classroom number 308, Dept. of ECE
Schedule of the Event	10/06/2023, From 9.00 am to 9.55 am
Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	No
Contents of the Event	<p>DSU in Tuple Errors in Lists Errors in strings Creating dictionary for 6th sem Students</p>
Impact Analysis after using this Innovative Teaching Methods used.	<p>Students understood what is decorated sort and undecorated technique Students were able to distinguish different errors in list Students were able to distinguish different errors in strings Students understood how to create a dictionary for different practical scenarios</p>
Feedback from the students	Good feedback was obtained from the students, They were interested to conduct more successions for better understanding.
Relevance to PO and PSO	<p>PO --- PO1 PSO --- PSO1</p>
Any comments or Suggestions from the Programme Co-ordinator/ HoD	--

Signature of the Faculty	Signature of the HOD
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Date: 10/06/2023

CIRCULAR

Python Application Programming – 18EC646

It is here by informed to all students of VI semester, that the pick and speak will be conducted on 12/06/2023, in Class room: 308.

The topics covered are: lists, strings, tuple, functions, objects, methods, class and other related topics along with the general knowledge.

Subject Coordinator

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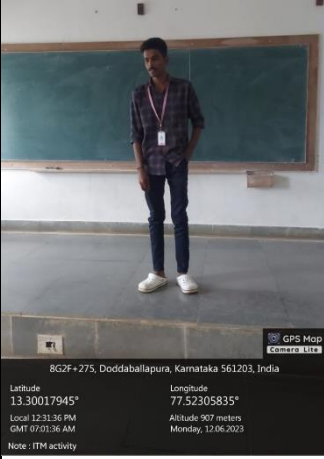
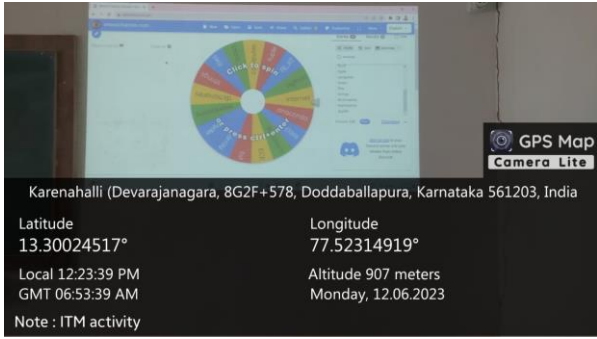
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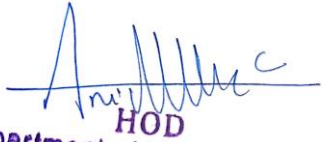
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ENGINEERING**

Date : 12/06/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23
Subject Name and Subject Code	Python application programming-18EC646
Faculty Name	Lavanya Vaishnavi DA
Semester	6
Name of the Innovative Teaching Methods used	Pick and speak
Short Description of the Innovative Teaching Activity.	<p>A fun game was conducted to the students of six semester. The class was divided into three groups. A list of topics was given on a spin wheel. The student has to enact the concept and also explain the properties of each concept. The activity was filled with lots of fun and knowledge.</p>  
Number of students got benefited.	28

Number of students involved in the activity.	28
Venue of the Activity	Classroom number 308, Dept. of ECE
Schedule of the Event	12/06/2023, From 11.55 pm to 12.40 pm
Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	No
Contents of the Event	List Internet APJ Kalam Tuple Class Jog Falls String ECE HDD Anaconda Array SDD Python Dictionaries Strings Spyder Dhoni Expressions And many others
Impact Analysis after using this Innovative Teaching Methods used.	Students were able to recall the properties of individual topics of python. Students learnt the properties with fun and laughter. Few general knowledge topics were also added like famous personalities of sports, politics and others
Feedback from the students	Students gave a positive feedback on the conducted event, Students found the event very charming and were happy to have such events in regular classes.
Relevance to PO and PSO	PO --- PO1 PSO --- PSO1
Any comments or Suggestions from the Programme Co-ordinator/ HoD	Events of this kind shall be conducted often to encourage fun learning.

Signature of the Faculty	Signature of the HOD
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Department of Electronics and Communication Engineering

Date: 13/12/2023

CIRCULAR

Electronic Devices – BEC306A

It is here by informed to all students of III semester, to come prepare for the quiz based for the first module of Electronic devices.

Module : Semiconductors

The topics covered are:

Bonding forces in solids,
Energy bands, Metals,
Semiconductors and Insulators,
Direct and Indirect semiconductors,
Electrons and Holes,
Intrinsic and Extrinsic materials


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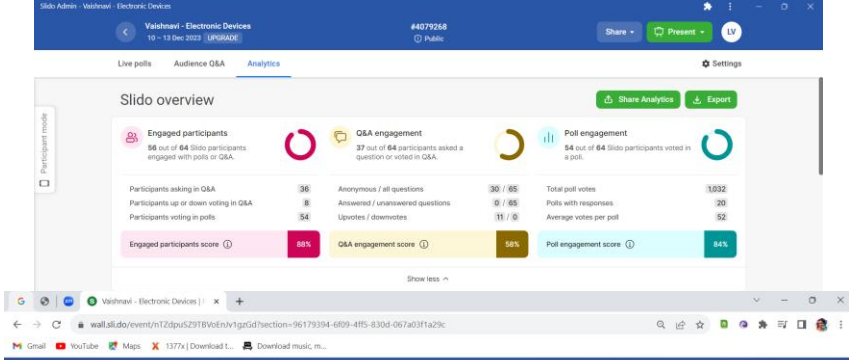


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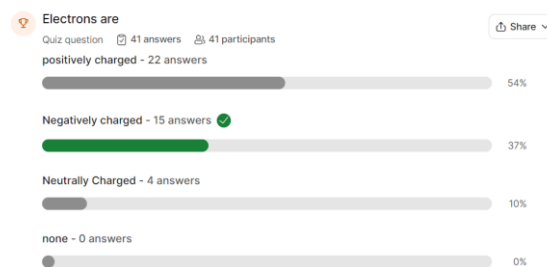


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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
 ENGINEERING**

Date : 15/12/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2023-24
Subject Name and SubjectCode	Electronic Devices – BEC306A
Faculty Name	Lavanya Vaishnavi DA
Semester	7
Name of the Innovative Teaching Methods used	Slido Quiz
Short Description of the Innovative Teaching Activity.	<p>An online interactive quiz was conducted on 15/12/2023, 54 students participated in the quiz. Students answered the quiz and participated actively. The timer of the quiz made the students more active and interesting.</p>  



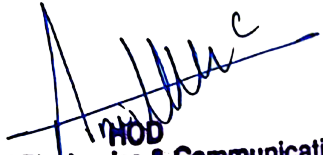
The following are the students who won the top 5 places in the quiz

Rank	Student Name	Score	Time
1	Rajeshwari.C	15/20 points	3:11
2	Sakshi	13/20 points	3:08
3	Sanjana P Patil	12/20 points	3:19
4	Gagan Kumar L.P	12/20 points	3:19
5	Harshitha N	12/20 points	3:26

Number of students got benefited.	54
Number of students involved in the activity.	54
Venue of the Activity	ECE, First Floor 210 class room.
Schedule of the Event	15/12/2023, 9.00 am
Whether the work can be Reproduced and Reviewed.	Yes

Details are available in the college website.	Yes
Contents of the Event	Bonding forces in solids, Energy bands, Metals, Semiconductors and Insulators, Direct and Indirect semiconductors, Electrons and Holes, Intrinsic and Extrinsic materials
Impact Analysis after using this Innovative Teaching Methods used.	The students learned to answer the technical questions in a swift way. The learning was fun-filled.
Feedback from the students	Students enjoyed the conduction of quiz, they asked for more such fun activities to have fun learning.
Relevance to PO and PSO	PO --- PO5 PSO --- PSO1
Any comments or Suggestions from the Programme Co-ordinator/ HoD	The programme was conducted to give extra benefit to the students, the students enjoyed answering the quiz. The top 5 Students were gifted with pens for completing the tasks.


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Department of Electronics and Communication Engineering

Date: 14/12/2023

CIRCULAR


VLSI Design – 18EC72

It is here by informed to all students of VII semester, a simulation-based learning will be conducted in 19/12/2023 in VLSI laboratory.

The topics covered are:

Timing Delays
Schematic design
Layout Design


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 ENGINEERING**


Date : 19/12/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2023-24
Subject Name and SubjectCode	VLSI Design – 18EC72
Faculty Name	Lavanya Vaishnavi DA
Semester	7
Name of the Innovative Teaching Methods used	Simulation based Learning
Short Description of the Innovative Teaching Activity.	<p>The class of students were divided in 5 groups, each were given a problem to design the Schematic, stick diagram and construct the layout out of it. finally Measuring the time delays for different configuration of the circuits.</p> <div style="display: flex; justify-content: space-around;">   </div>
Number of students got benefited.	27



Number of students involved in the activity.	27
Venue of the Activity	Laboratory
Schedule of the Event	19/12/2023, at 10.00 am onwards
Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	No
Contents of the Event	Timing Delays Schematic design Layout Design $y = \overline{ab}$, with $\frac{w_n}{w_p} = \frac{2}{1}, \frac{w_n}{w_p} = \frac{1}{2}, \frac{w_n}{w_p} = \frac{1}{1}$ $y = \overline{a + b}$, with $\frac{w_n}{w_p} = \frac{2}{1}, \frac{w_n}{w_p} = \frac{1}{2}, \frac{w_n}{w_p} = \frac{1}{1}$ $y = \overline{ab + c}$, with $\frac{w_n}{w_p} = \frac{2}{1}, \frac{w_n}{w_p} = \frac{1}{2}, \frac{w_n}{w_p} = \frac{1}{1}$
Impact Analysis after using this Innovative Teaching Methods used.	The students were able to understand the steps of simulation. Students were benefited with execution skills and problems solving ability. Students understood that the usage of Cadance. Students understood the concept of delay with respect to size of transistor.
Feedback from the students	Students were curious and understood the importance of practical simulation in the labs.
Relevance to PO and PSO	PO --- PO5 PSO --- PSO1
Any comments or Suggestions from the Programme Co-ordinator/ HoD	The programme was conducted to give extra benefit to the students, the students enjoyed the program code writing part and completed the task in given time.


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 08.06.2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23
Subject Name and Subject Code	Circuits and Controls (21EC43)
Faculty Name	Prof. Lokesh R
Semester	IV semester B section
Name of the Innovative Teaching Methods used	Chalk and talk by student
Short Description of the Innovative Teaching Activity.	<p>Developing confidence of a student to solve the problems</p>  <div style="position: absolute; bottom: 10px; right: 10px; background-color: black; color: white; padding: 5px; font-size: small;"> GPS Map Camera Doddaballapura, Karnataka, India ECE Block, 8G2F+286, RLJIT Campus Rd, Doddaballapura, Karnataka 561203, India Lat 13.300067° Long 77.523336° 08/06/23 12:40 PM GMT +05:30 </div>
Number of students got benefited.	Students who attend the class got benefited

Number of students involved in the activity.	30
Venue of the Activity	Class Room 403
Schedule of the Event	11:00am to 12:40pm
Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	Yet to update
Contents of the Event	Mesh analysis
Impact Analysis after using this Innovative Teaching Methods used.	Other students got motivated by seeing the confidence of Miss.Vinutha D
Feedback from the students	Verygood and helpful
Relevance to PO and PSO	PO2, PSO3
Any comments or Suggestions from the Programme Co- ordinator/ HoD	

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 10.06.2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

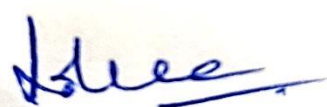


Academic Year	2022-23
Subject Name and Subject Code	Circuits and Controls (21EC43)
Faculty Name	Prof. Lokesh R and Prof. Manjesh N
Semester	IV Semester A and B section
Name of the Innovative Teaching Methods used	Technical quiz on Circuits and Controls using Kahoot app
Short Description of the Innovative Teaching Activity.	To check the basic knowledge of the subject





Number of students got benefited.	Included all the students to participate individual in the event and majority of the students got benefited
Number of students involved in the activity.	85
Venue of the Activity	ECE Seminar Hall
Schedule of the Event	1.45pm to 3.30pm
Whether the work can be Reproduced and Reviewed.	Yes

Details are available in the college website.	Yet to update
Contents of the Event	<ul style="list-style-type: none"> ❖ KVL/KCL statements ❖ Ohms law ❖ Open circuit/short circuit ❖ Effective resistance of series/parallel combination ❖ Maximum values, RMS value ❖ Power factor ❖ Active power and apparent power ❖ Vector rotation
Impact Analysis after using this Innovative Teaching Methods used.	All the students are attended the 1 st round, students who fail to qualify the 2 nd round, came to know the easiness of the network after the explanation.
Feedback from the students	They give good feedback about the activity and they are expecting some more this types of activities in future
Relevance to PO and PSO	PO1, PSO3
Any comments or Suggestions from the Programme Co-ordinator/ HoD	


Signature of the Faculty	Signature of the HOD
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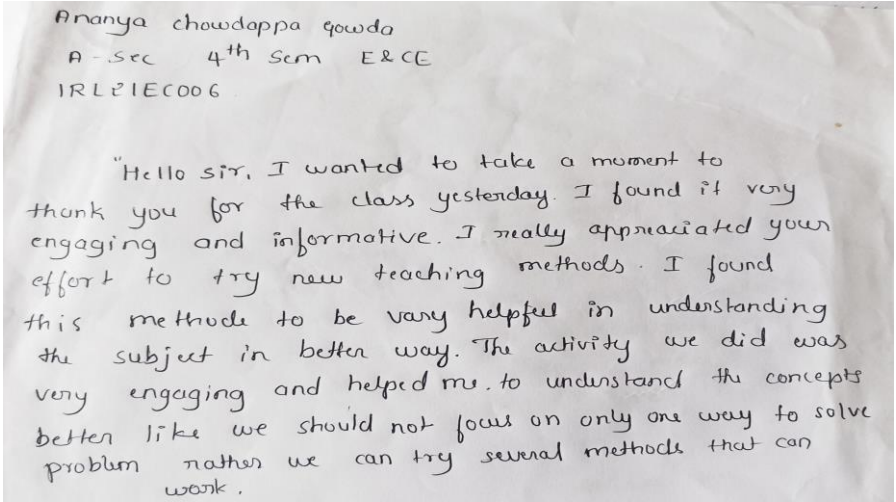
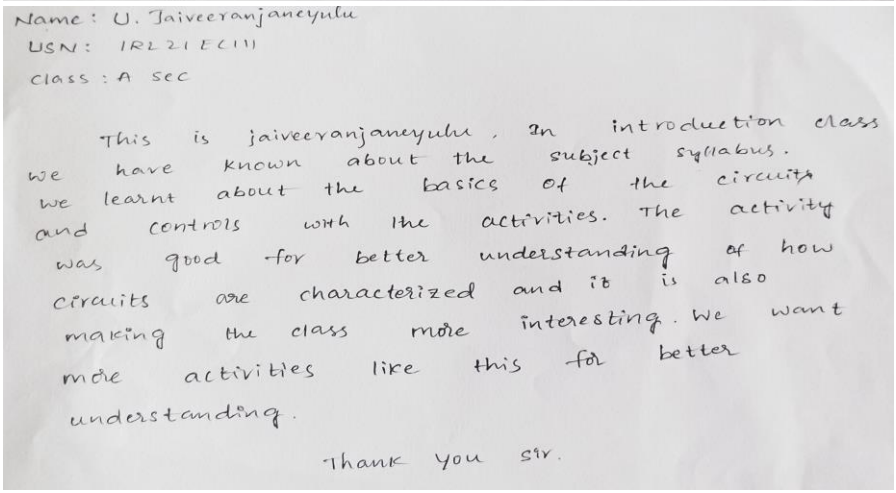
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Date: 08.06.2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23
Subject Name and Subject Code	Circuits and Controls (21EC43)
Faculty Name	Prof. Manjesh N
Semester	IV semester A section
Name of the Innovative Teaching Methods used	Activates based learning
Short Description of the Innovative Teaching Activity.	<p>How students looking towards the networks and how they are able to solve in many way and also how themselves start analysis the network wrong.</p> 

	
Number of students got benefited.	Students who attend the class got benefited
Number of students involved in the activity.	35
Venue of the Activity	Class Room 407
Schedule of the Event	12:00pm to 1pm
Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	Yet to update
Contents of the Event	Mesh analysis to solve the loop currents

<p>Impact Analysis after using this Innovative Teaching Methods used.</p>	<p>Asked two students to participate, Asar Fathima and Haleema sadiya they taken the challenge to solve the activity they were failed, and asked some more students help them to solve, Keerthi came to solve again she failed to solve, all the students are observing them how they are trying solve, at the end Manasa B she came and solved. At the end of the task they come to know where all are failed to analysis the circuits.</p> <p>“Networks are look like simple but we need to know where the solution, how it can be done is” they learned from it.</p>
<p>Feedback from the students</p>	<p>Very good and helpful, they are expecting the same activities more in in upcoming classes</p>  <p>Ananya chowdappa Gowda A - Sec 4th Sem E&CE IRL21EC006</p> <p>"Hello sir, I wanted to take a moment to thank you for the class yesterday. I found it very engaging and informative. I really appreciated your effort to try new teaching methods. I found this methode to be very helpful in understanding the subject in better way. The activity we did was very engaging and helped me to understand the concepts better like we should not focus on only one way to solve problem rather we can try several methode that can work.</p> <p>Name: U. Jaiveeranjanyulu USN: IRL21EC111 CLASS: A SEC</p>  <p>This is jaiveeranjanyulu, an introduction class we have known about the subject syllabus. we learnt about the basics of the circuits and controls with the activities. The activity was good for better understanding of how circuits are characterized and it is also making the class more interesting. We want more activibles like this for better understanding.</p> <p>Thank you sir.</p>
<p>Relevance to PO and PSO</p>	<p>PO2, PSO3</p>
<p>Any comments or Suggestions from the Programme Co- ordinator/ HoD</p>	<p>Nil</p>

Signature of the Faculty	Signature of the HOD
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 10.06.2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23
Subject Name and Subject Code	Circuits and Controls (21EC43)
Faculty Name	Prof. Lokesh R and Prof. Manjesh N
Semester	IV Semester A and B section
Name of the Innovative Teaching Methods used	Technical quiz on Circuits and Controls using Kahoot app
Short Description of the Innovative Teaching Activity.	To check the basic knowledge of the subject





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 Long 77.523189°



GPS Map Camera
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 Lat 13.300055°
 Long 77.523296°





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 Lat 13.300055°
 Long 77.523296°

Number of students got benefited.	Included all the students to participate individual in the event and majority of the students got benefited
Number of students involved in the activity.	85
Venue of the Activity	ECE Seminar Hall
Schedule of the Event	1.45pm to 3.30pm
Whether the work can be Reproduced and Reviewed.	Yes

Details are available in the college website.	Yet to update
Contents of the Event	<ul style="list-style-type: none"> ❖ KVL/KCL statements ❖ Ohms law ❖ Open circuit/short circuit ❖ Effective resistance of series/parallel combination ❖ Maximum values, RMS value ❖ Power factor ❖ Active power and apparent power ❖ Vector rotation
Impact Analysis after using this Innovative Teaching Methods used.	All the students are attended the 1 st round, students who fail to qualify the 2 nd round, came to know the easiness of the network after the explanation.
Feedback from the students	They give good feedback about the activity and they are expecting some more this types of activities in future
Relevance to PO and PSO	PO1, PSO3
Any comments or Suggestions from the Programme Co-ordinator/ HoD	

Signature of the Faculty	Signature of the HOD
	 HOD Department of Electronics and Communication Engineering R. L. Jalappa Institute of Technology Kodigehalli, Doddaballapur Bangalore Rural District-561 203




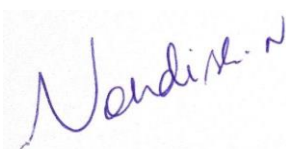

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DEPARTMENT OF ECE

Date :09/06/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23
Subject Name and Subject Code	Microwave and Antennas
Faculty Name	Prof. Nandish. N
Semester	VI
Name of the Innovative Teaching Methods used	Group Discussion and Quiz
Short Description of the Innovative Teaching Activity.	<p>A Group Discussion was conducted on how supply chain management has been affected due to Russia-Ukraine war and inflation and globalization of supply chain management</p> <p>Then a quiz was conducted on Antenna – Basics of Antenna and Types of antennas.</p>
Number of students got benefited.	28

Number of students involved in the activity.	28
Venue of the Activity	Class Room Number: 308
Schedule of the Event	10.00 AM to 11:30 AM
Whether the work can be Reproduced and Reviewed.	YES
Details are available in the college website.	No
Contents of the Event	
Impact Analysis after using this Innovative Teaching Methods used.	The innovative method was useful to the students in better understanding the subject and can be remembered for the examination.
Feedback from the students	Students are very happy and showed a positive attitude. It was very interesting.
Relevance to PO and PSO	PO6
Any comments or Suggestions from the Programme Co-ordinator/ HoD	

Signature of the Faculty	Signature of the HOD
	 HOD Department of Electronics and Communication Engineering R.L. Jalappa Institute of Technology Kodigehalli, Doddaballapur Bangalore Rural District-561 203




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 07/06/2023



DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23 EVEN
Subject Name and Subject Code	Communication Theory and 21EC44
Faculty Name	Dr. Harish S.
Semester	4 th Semester, 'B' Section
Name of the Innovative Teaching Methods used	Pick and Speak
Short Description of the Innovative Teaching Activity.	<p>The objective of conducting this Pick and Speak event is to know the understanding level and the presentation skills of students about the basic communication systems. The conducted event was Pick and Speak, where students pick a topic from bowl. The student will speak about the topic for (3 to 5) minutes and explore the knowledge about the topic.</p> 



Number of students got benefited.	40
Number of students involved in the activity.	8
Venue of the Activity	Class Room No.: 407
Schedule of the Event	07/06/2023
Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	No

Contents of the Event	The event contains the Pick and Speak activity and the some of the topics given for the students are: <ul style="list-style-type: none"> • Elements of Communication system • Advantages of Modulation • Introduction to Fourier Transform • Sources of information • Types of Modulation • Radio Broadcasting • Television Broadcasting • Mobile Communication
Impact Analysis after using this Innovative Teaching Methods used.	Our students have expressed this innovative Teaching Methods is very interesting and they can understand the concept very quickly.
Feedback from the students	Our students have expressed this Pick and Speak Innovative Teaching Method is very interesting and they can understand the concept very clearly.
Relevance to PO and PSO	PO1, PSO2.
Any comments or Suggestions from the Programme Co-ordinator/ HoD	This activity should be extended for next batch of students.

Signature of the Faculty	Signature of the HOD
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 07/06/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23 EVEN
Subject Name and Subject Code	Communication Theory and 21EC44
Faculty Name	Dr. Harish S.
Semester	4 th Semester
Name of the Innovative Teaching Methods used	Online live Quiz
Short Description of the Innovative Teaching Activity.	<p>The objective of conducting this quiz is to know the understanding level of students about the basic communication systems. The conducted event was online live quiz, where students will get the questions and answering options to their smart phone. They can individually reply to each question from their smart phones. The questions and answering options will be displayed on the screen. The correct answers were displayed on the screen. Students enjoyed and understood the concepts of communication theory by knowing the correct answers.</p> <p>Online Quiz link: https://www.menti.com/alvpo7z4z4im</p> 



Number of students got benefited.

Number of students involved in the activity.

Venue of the Activity

Schedule of the Event

Whether the work can be Reproduced and Reviewed.

Details are available in the college website.

Contents of the Event

30

30

Class Room No.: 407

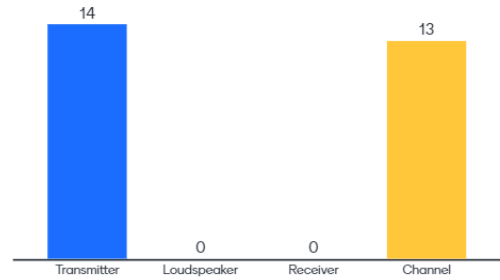
07/06/2023

Yes

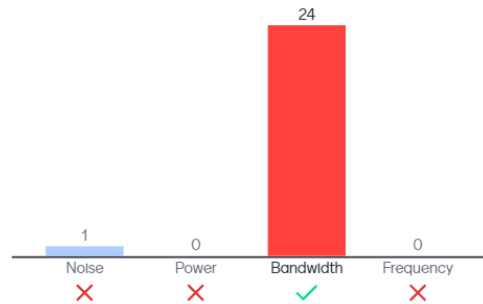
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Quiz questions and answers.

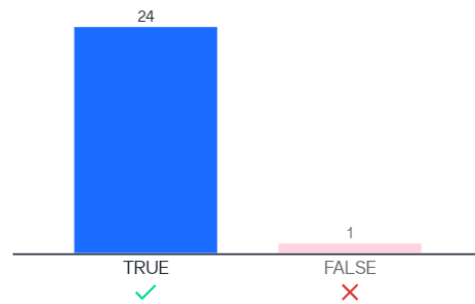
1. Medium which sends information from source to receiver is called _



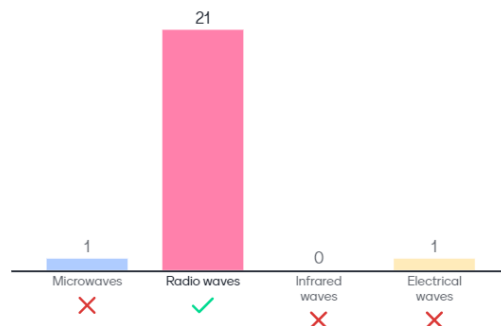
2. Data transmitted for a given amount of time is called _____



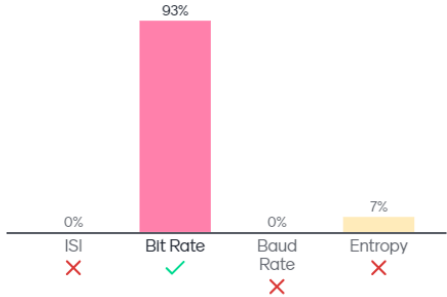
4. Telephones send information through wires in form of electrical signals.





5. Cell phones send information in form of



Voting is closed
Press to open voting

	<p>10. The number of bits conveyed or processed for unit time is called ____</p>  <table border="1"> <caption>Quiz Results</caption> <thead> <tr> <th>Option</th> <th>Percentage</th> <th>Correct</th> </tr> </thead> <tbody> <tr> <td>ISI</td> <td>0%</td> <td>✗</td> </tr> <tr> <td>Bit Rate</td> <td>93%</td> <td>✓</td> </tr> <tr> <td>Baud Rate</td> <td>0%</td> <td>✗</td> </tr> <tr> <td>Entropy</td> <td>7%</td> <td>✗</td> </tr> </tbody> </table>	Option	Percentage	Correct	ISI	0%	✗	Bit Rate	93%	✓	Baud Rate	0%	✗	Entropy	7%	✗
Option	Percentage	Correct														
ISI	0%	✗														
Bit Rate	93%	✓														
Baud Rate	0%	✗														
Entropy	7%	✗														
<p>Impact Analysis after using this Innovative Teaching Methods used.</p>	<p>Students have shown more interesting in learning the subject.</p>															
<p>Feedback from the students</p>	<p>Our students have expressed this Online live Quiz Innovative Teaching Method is very interesting and they can understand the concept very clearly.</p>															
<p>Relevance to PO and PSO</p>	<p>PO1, PO5, PSO2,</p>															
<p>Any comments or Suggestions from the Programme Co-ordinator/ HoD</p>	<p>The content should be made readily available for the students.</p>															

Signature of the Faculty	Signature of the HOD
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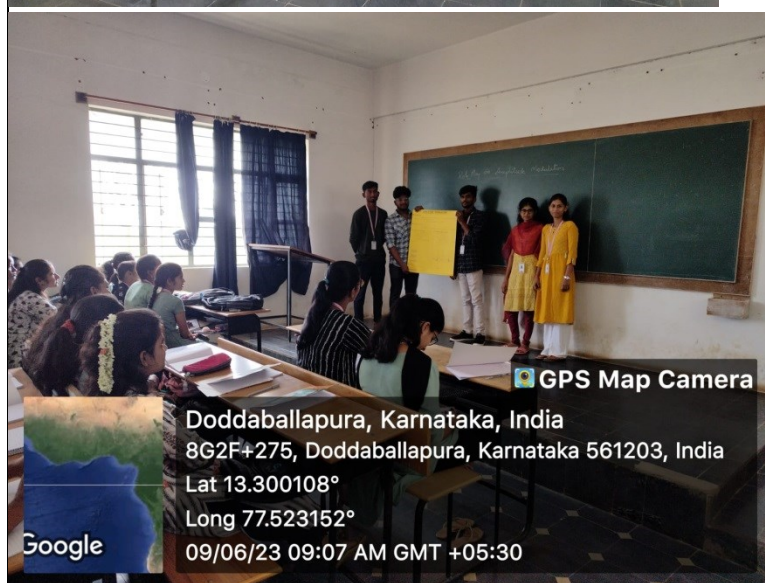
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 09/06/2023



DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23 EVEN
Subject Name and Subject Code	Communication Theory and 21EC44
Faculty Name	Dr. Harish S.
Semester	4 th Semester
Name of the Innovative Teaching Methods used	Role Play
Short Description of the Innovative Teaching Activity	<p>Role play was carried out by the students to understand concepts of amplitude modulation. The role play starts with the definitions of communication, modulation and amplitude modulation. It describes the time domain and frequency domain description of amplitude modulation.</p> 

Number of students got benefited.	46
Number of students involved in the activity.	5
Venue of the Activity	Class Room No.: 407
Schedule of the Event	09/06/2023
Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	No
Contents of the Event	<p>The event contains the Role Play activity on the concepts of amplitude modulation. The role play describes time domain and frequency domain analysis.</p>   <p>GPS Map Camera Doddaballapura, Karnataka, India 8G2F+275, Doddaballapura, Karnataka 561203, India Lat 13.300108° Long 77.523152° 09/06/23 09:28 AM GMT +05:30</p>



Impact Analysis after using this Innovative Teaching Methods used.	Our students have expressed this innovative Teaching Methods is very interesting and they can understand the concept very quickly.
Feedback from the students	Our students have expressed this Role Play Innovative Teaching Method is very interesting and they can understand the concept very clearly.
Relevance to PO and PSO	PO1, PSO2.
Any comments or Suggestions from the Programme Coordinator/ HoD	This activity should be extended for next batch of students.

Signature of the Faculty	Signature of the HOD
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 09/06/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED

Academic Year	2022-23 EVEN
Subject Name and Subject Code	Introduction to Basic Electronics BESCK104C
Faculty Name	Prof.Shilpakala V
Semester	II Semester (A & B section)
Name of the Innovative Teaching Methods used	Role Play and Online Quiz for Conversion of Number system (Digital Logic)
Short Description of the Innovative Teaching Activity.	<p>The objective of conducting this technique is to know the understanding level of students about Conversion of Number system. The conducted event was interactive, where students will be delivered with explanation of the different number system. Then randomly picked four students. The four students were given a number which they had to convert into suitable number system using calculator. Students were named binary number, octal number, decimal number and hexadecimal number respectively.</p> <p>So the students were asked to convert binary number system to octal, octal to decimal, binary to hexadecimal and vice-versa.</p> <p>The students were interactive and were able to make use of the calculator effectively for the conversions, which would be helpful for the examination.</p> <p>Online quizzes were also conducted for the same and online certificates was generated for the same.</p> <p>.</p>



Your Certificate

CERTIFICATE
OF ACHIEVEMENT

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Ujwala
got a score of
100/100
on
Number system quiz for Binary, Decimal, and Hexadecimal

Date Jun 19, 2023

ProProfs
Quiz Maker

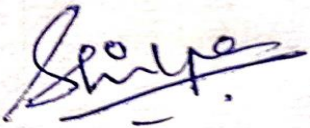

BEST AWARD



Number of students got benefited.	100(A & B SEC)
Number of students involved in the activity.	20
Venue of the Activity	Classroom No.: 335,334
Schedule of the Event	09/06/2023
Whether the work can be Reproduced and Reviewed.	Yes
Details are available in the college website.	No
Contents of the Event	Conversion of Numbers system
Impact Analysis after using this Innovative Teaching Methods used.	They could do the conversion of one number to another at that instant of time.
Feedback from the students	Our students have expressed the role play and online quiz method was useful in making the concept clearer than the conventional chalk and talk method. The students found it interactive and lively session.
Relevance to PO and PSO	PO1, PO2, PSO3,

Any comments or Suggestions from the Programme Co-ordinator/ HoD

The continued method of innovative techniques can be repeatedly used for all the possible topics in the syllabus.

Signature of the Faculty	Signature of the HOD
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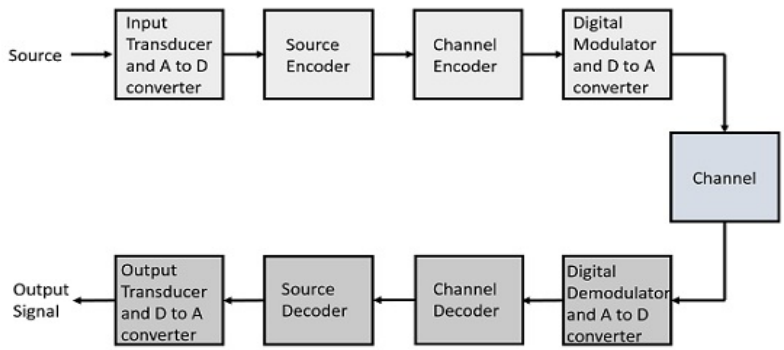


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 07/06/2023

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2022-23 EVEN
Subject Name and Subject Code	Digital communication 18EC61
Faculty Name	VIJAY KUMAR
Semester	VI SEM
Name of the Innovative Teaching Methods used	ROLE PLAY ON DIGITAL MODULATION
Short Description of the Innovative Teaching Activity.	<p>the objective of conducting is basics understanding of elements of digital communication</p> <p>Following are the sections of the digital communication system.</p> <p>Elements of Digital Communication</p> <p>The elements which form a digital communication system is represented by the following block diagram for the ease of understanding.</p>  <p style="text-align: center;">Basic Elements of a Digital Communication System</p> <p>Source Input Transducer</p> <p>This is a transducer which takes a physical input and converts it to an electrical signal (Example: microphone). This block also consists of an analog to</p>

digital converter where a digital signal is needed for further processes.

A digital signal is generally represented by a binary sequence.

Source Encoder

The source encoder compresses the data into minimum number of bits

Channel Encoder

The channel encoder, does the coding for error correction. During the transmission of the signal, due to the noise in the channel, the signal may get altered and hence to avoid this, the channel encoder adds some redundant bits to the transmitted data. These are the error correcting bits.

Digital Modulator

The signal to be transmitted is modulated here by a carrier. The signal is also converted to analog from the digital sequence, in order to make it travel through the channel or medium.

Channel

The channel or a medium, allows the analog signal to transmit from the transmitter end to the receiver end.

Digital Demodulator

This is the first step at the receiver end. The received signal is demodulated as well as converted again from analog to digital. The signal gets reconstructed here.

Channel Decoder

The channel decoder, after detecting the sequence, does some error corrections. The distortions which might occur during the transmission, are corrected by adding some redundant bits. This addition of bits helps in the complete recovery of the original signal.

Source Decoder

The resultant signal is once again digitized by sampling and quantizing so that the pure digital output is obtained without the loss of information. The source decoder recreates the source output.

Output Transducer

This is the last block which converts the signal into the original physical form, which was at the input of the transmitter. It converts the electrical signal into physical output (**Example**: loud speaker).



Output Signal

This is the output which is produced after the whole process. This unit has dealt with the introduction, the digitization of signals, the advantages and the elements of digital communications. In the coming chapters, we will learn about the concepts of digital communications



Number of students got benefited.	28
Number of students involved in the activity.	28
Venue of the Activity	ECE 308 CLASS ROOM
Schedule of the Event	1:30 PM
Whether the work can be Reproduced and Reviewed.	YES

Details are available in the college website.	
Contents of the Event	The event contains the ROLE PLAY ON DIGITAL MODULATION activity and the some of the topics given for the students are: <ul style="list-style-type: none"> • Elements of Communication system • Advantages of Modulation • Sources of information • Types of Modulation • Mobile Communication
Impact Analysis after using this Innovative Teaching Methods used.	Our students have expressed this innovative Teaching Methods is very interesting and they can understand the concept very quickly.
Feedback from the students	Our students have expressed this role play on digital modulation Innovative Teaching Method is very interesting
Relevance to PO and PSO	PSO1, PSO2.
Any comments or Suggestions from the Programme Co-ordinator/ HoD	Two or three techniques can be combined to make activity more interesting

Signature of the Faculty	Signature of the HOD
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