



Yashwantrao Chavan College of Science, Karad

Department of Electronics

Student Seminar -2022-23

Class – B.Sc.III

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HOD

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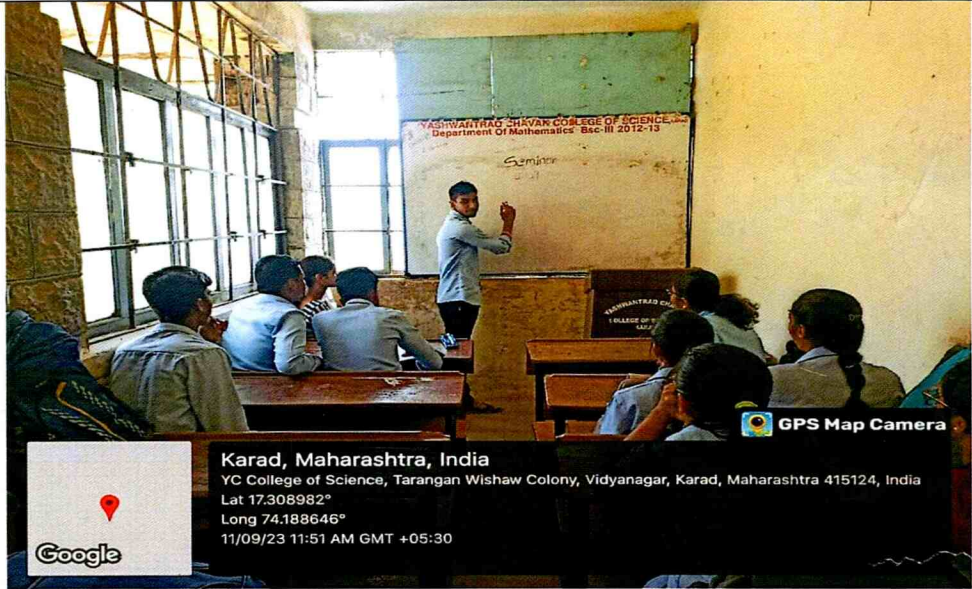


Principal

Yashwantrao Chavan College of Science, Karad



Yashwantrao Chavan College of Science, Karad

ACTIVITY REPORT

Name of the Department: Electronics		Academic Year – 2022-23
Name of the activity	B.Sc. III Electronics Students Seminar	
Purpose of Program	To impose presentation skill in a student To impose stage daring in a student	
No. of Students Participated	12	
No. of Teachers Participated	05	
Program outcomes	1) A well Trained Student 2) student with Personality developement	
Program Photo	 <div style="position: absolute; bottom: 10px; left: 10px;">  <p>Karad, Maharashtra, India YC College of Science, Tarangan Wishaw Colony, Vidyanagar, Karad, Maharashtra 415124, India Lat 17.308982° Long 74.188646° 11/09/23 11:51 AM GMT +05:30</p> </div> <div style="position: absolute; bottom: 10px; right: 10px;">  </div>	


 Teacher In charge


 Signature
 Head of the Department


 Signature IQAC
 Co-ordinator


 Signature
 Principal

HEAD
 Department of Electronics
 Yashwantrao Chavan College of Science,
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Principal
 Yashwantrao Chavan College of Science, Karad

Yashwantrao Chavan College of Science, Karad

Department of Electronics

Student Seminar 2022-23

Class: -B.Sc.III

Notice

Date : 15/02/2023

All students of the B.Sc. III class are informed that, a student seminar is arranged on 20/02/2023 at 11:00 Am in the electronics department. It is compulsory for all students. All should note and follow.



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YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Department of Electronics

Students Attendance B.Sc. III 22-23

Name of the Activity: Students Seminar

Date: 25/02/2023



Sr. No.	Students Name	Class	Signature
1.	Kadam Tejas Sumbaji	BSC-III	Kadam.T.
2.	MOHITHE aditya sambhaji	BSC-III	MOHITHE
3.	Jeevan Sanjay Pawar	BSC-III	Pawar
4.	Kadole TEJAS Sambhaji	BSC-III	ISKadole
5.	Desai shrawash sambhaji	BSC-III	S.S.D
6.	Salunkhe Pratik Niranjan	BSC-III	Salunkhe.P
7.	Dhonde Ankita	BSC-III	Ankita
8.	Dubal Harshani Nivas	BSC-III	D.H.N
9.	Smriti Shinde	BSC-III	Smriti
10.	Ashwini Todkars	BSC-III	Ashwini
11.	Todkar Shriraj.D.	BSC-III	Todkar
12.			
13.			
14.			
15.			

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YASHWANTRAO CHAVAN COLLEGE OF SCIENCE KARAD

DEPARTMENT OF ELECTRONICS

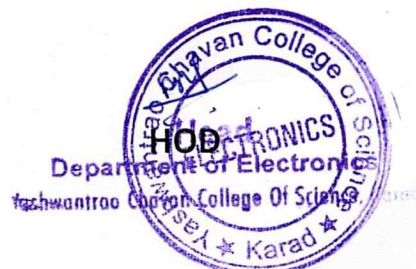
Seminar Report

B.Sc.III

Academic Year 2022 -23

Sr.No.	Name of student	Seminar Title
1.	DubalHarshaniNivas	Bluetooth Technology
2.	LondheAnkitaAvinash	Organic light Emitting Diode
3.	ShedageSayaliAbaso	Zigbee Technology
4.	TodkarSairajDnyaneshwar	Wireless Electricity
5.	PawarJeevan Sanjay	PIC Microcontroller
6.	MohiteAdityaSubhash	ADC Analog to Digital converter
7.	KadoleTejasSambhaji	Microcontroller 8051
8.	ZarekarSanketSubhash	Photodiode
9.	GuravAdityaKrishnat	LiFi
10.	Salunkhe Pratik Niranjan	Electrocardiogram(ECG)
11.	Desai ShriyashSamhaji	Zigbee
12	KharadeBaljeetDhondiram	4G version

Teacher Incharge



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Yashwantrao Chavan College of Science, Karad.

Department of Electronics.

BSC - III

Seminar

Student name :- Shedage Sayali Abaso.

Roll no :- 3303

Title of seminar :- ZigBee technology.

Teacher Incharge

External
Examiner


Principal

Yashwantrao Chavan College of Science, Karad



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- Introduction
- What is zigbee-Technology?
- History of Zigbee-Technology.
- How does zigbee-Technology work?
- Types of Zigbee Devices
- Zigbee-technology topology
- Star topology
- Tree topology
- Peer topology or Mesh topology
- Zigbee technology application
- Zigbee technology advantages
- Zigbee technology disadvantages
- Conclusion.



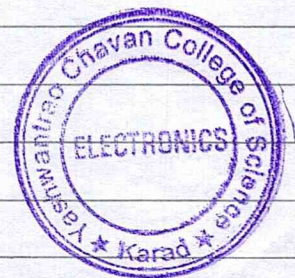
ZIGBEE TECHNOLOGY TROPOLOGY.

- Zigbee network topology can be divided into three types.
 - 1) Star topology
 - 2) Tree topology
 - 3) Peer-to-peer or mesh topology
- Each topology will have different affect on how the messages are routed and which devices connect to which devices.



HOW DOES ZIGBEE TECHNOLOGY WORK?

- Zigbee technology works with digital radios by allowing different devices to converse through one another.
- The devices used in this network are a router, coordinator as well as end devices
- The main function of these devices is to deliver the instructions and messages from the coordinator to the single end devices such as a light bulb.



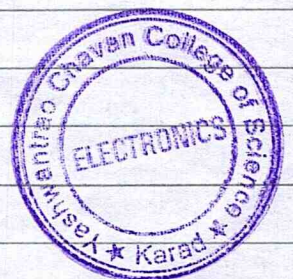
TREE TOPOLOGY.

- It consists of coordinator, few routers and end devices that act as a central node or root tree.
- The routers operate as an extension for the network coverage. The end nodes that are connected to the parent are called children.
- Only the end devices can communicate with the parent. The detriment of the tree topology is if one parent is disabled, the children of the disabled parent cannot communicate with other devices in the network even though they are close to each other.



WHAT IS ZIGBEE TECHNOLOGY.

- Zigbee is built for control and sensor networks on the IEEE 802.15.4 wireless standard for wireless personal area network (WPAN)
- Zigbee is for low-data rate, low-power applications and is an open standard.
- The Zigbee WPAN's operate on 2.4 GHz, 900 MHz and 868 MHz frequencies
- Data rate is 250 Kbps.
- Range is 10-100 meters



DISADVANTAGES.

- The transmission rate is low
- Zigbee technology has a lot of security threats.
- Implementation of Zigbee technology can be expensive.
- It has also compatibility.
- Zigbee is low bit rate.



Sample Feedback Form.

Yashwantrao Chavan College of Science, Karad

Department of Electronics

Feedback form 2022-2023

Name of the Activity- Students Seminar

Class:.....BSC III.....

Roll No. 3308



		Excellent (5)	Very Good (4)	Good (3)	Satisfactory (2)	Poor (1)
1	Subject Interest generated by Teacher Incharge	✓				
2	Support by Teachers during seminar		✓			
3	Behavior and help extended by the Non-teaching staff	✓				
4	Providing ICT facilities		✓			
5	Overall fulfilment and your expectations from the Department	✓				

Any other suggestions if any.....

Name of the Students.....Jarekar Sanket Subhas.

Date: 25-2-2023

Sign. JKS:

Yashwantrao Chavan college of Science, Karad

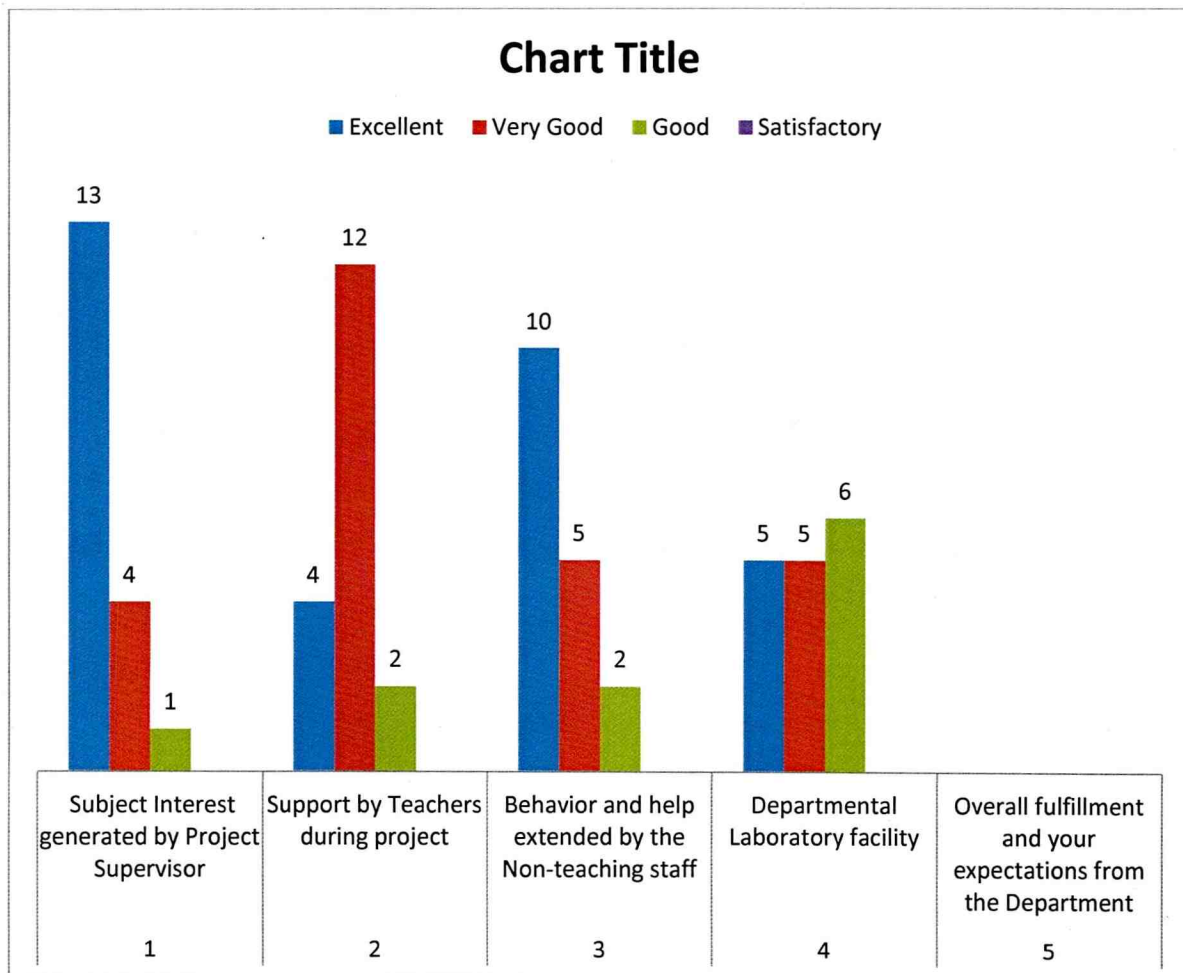
Department of Electronics



Name of the Activity– Students Seminar B.Sc. III (2022-23)

No. of Student – 11

		Excellent	Very Good	Good	Satisfactory	Poor
1	Subject Interest generated by Teacher incharge	11	1	1		
2	Support by Teachers during seminar	8	5			
3	Behavior and help extended by the Non-teaching staff	10	2		1	
4	Providing ICT facility	6	5	1		
5	Overall fulfillment and your expectations from the Department	11	1		1	




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