

Yashwantrao Chavan College of Science, Karad

Department of Electronics

Student Seminar -2022-23

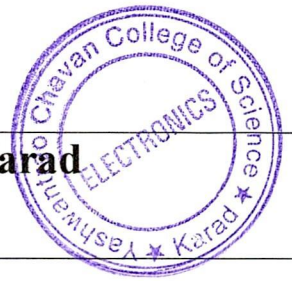
Class – B.Sc.II

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HEAD
Department of Electronics
Yashwantrao Chavan College of Science,
Karad


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. II Electronics Students Seminar	
Purpose of Program	To impose presentation skill in a student To impose stage daring in a student	
No. of Students Participated	17	
No. of Teachers Participated	05	
Program outcomes	1) A well Trained Students 2) A student with personality development	
Program Photo	 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	


Teacher In charge


Signature
Head of the Department

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Department of Electronics
Yashwantrao Chavan College of Science,
Karad

Signature
Principal

Principal
Yashwantrao Chavan College of Science, Karad

Yashwantrao Chavan College of Science, Karad

Department of Electronics

Student Seminar 2022-23

Class: -B.Sc.II

Notice

Date : 15/02/2023

All students of the B.Sc. II class are informed that, a student seminar is arranged on 20/02/2023 at 1:00 pm in the electronics department. It is compulsory for all students. All should note and follow.


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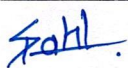
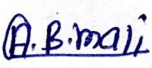
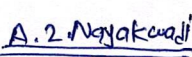
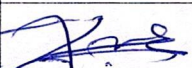
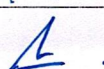
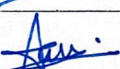
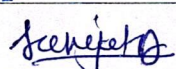
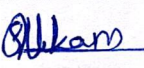
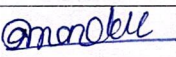
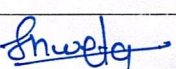
Department of Electronics

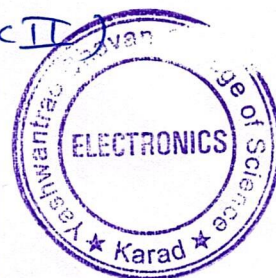
Students Attendance - 2022-23

Name of the Activity: Students Seminar

Date: 28/02/23

C BSc II

Sr. No.	Students Name	Class	Signature
1.	Patil Shantanu Bhaskar	B.Sc - II	
2.	Kharat Karan Krishnat	B.Sc - II	
3.	Mali Aditya babaso	B.Sc - II	
4.	more Akash Deepak	B.Sc - II	
5.	Tapase Ganesh Nitesh	B.Sc - II	
6.	Nayakwadi Alphan zakir	B.Sc - II	
7.	Kumbhar Karan Hanmant	B.Sc - II	
8.	Shinde Bharat Madhukar	B.Sc - II	
9.	Dodmani Rahul Raju	B.Sc - II	
10.	Tewari Mukesh Rajesh	B.Sc - II	
11.	Shinde Asmita Nitin	B.Sc - II	
12.	Patil Shrikant Subhash	B.Sc - II	
13.	Rajput Abhaysinh Dipak	B.Sc - II	
14.	Seniker Nivesh Jagrup	B.Sc - II	
15.	Nikam Siddhi Ramesh	B.Sc - II	
16.	Mandale Amruta Avinash	B.Sc - II	
17.	Yadav Shweta Sunil	B.Sc - II	
18.			
19.			
20.	 HEAD Department of Electronics		
21.	Yashwantrao Chavan College of Science, Karad		Principal Yashwantrao Chavan College of Science, Karad



YASHWANTRAO CHAVAN COLLEGE OF SCIENCE KARAD

DEPARTMENT OF ELECTRONICS

Seminar Report

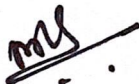
B.Sc. II

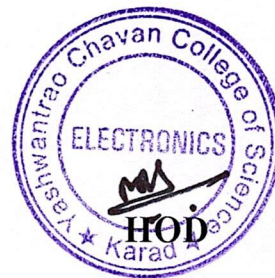
Academic Year 2022 -2023

Sr.No.	Name of student	Seminar Title
1.	Bandekar Apoorv Vasant	Bluetooth and Technology
2.	Dodmani Rahul Raju	Bluetooth Technology
3.	Jagtap Sanika Nivas	5G Wireless Technology
4.	Kharat karan Krishnat	Bluetooth and Technology
5.	Kumbhar Karan Hanmanth	Photodiode
6.	Mali Aditya Babaso	Random Access memory (RAM)
7.	Mandale Amruta Avinash	IOT
8.	Mane Prajwa lManoj	LCD Display
9.	More Akash Deepak	Laptop
10.	Nayakwadi Alphan Jakir	Semiconductor of Transistor
11.	Nikam Siddhi Ramesh	Robot arm
12.	PatilShantanuBhaskar	5G Mobile Technology
13.	Patil Shrikant Subhash	Wi-Fi Technology
14.	Pawar Sairaj Shivaji	PLC
15.	Rajput AbhaysinhDipak	Bluetooth Technology
16.	Shinde AsmitaNitin	Microcontroller
17.	Shinde Bharat Madhukar	Li-Fi
18.	Tapse Ganesh Nilesh	Embedded System



19.	Tewar Mukesh Rajesh	Gaming Consoles
20.	Waghmare Sushant Shantinath	Bio-matrix
21.	Yadav Darshan Dada	Buetooth and Technology
22.	Yadav Kiran Dipak	IP Technology
23.	Yadav Shweta Sunil	Optical Internet


Teacher Incharge



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Principal

Yashwantrao Chavan College of Science, Karad

• SEMINAR REPORT ON •

5G WIRELESS TECHNOLOGY

• SUBMITTED TO •

YASHWANTRAO CHAVAN COLLEGE
OF SCIENCE KARAD.

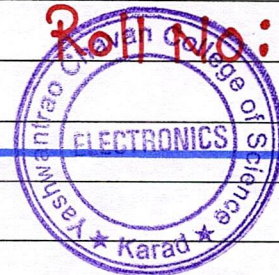
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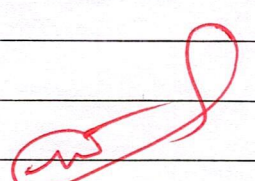
ELECTRONICS

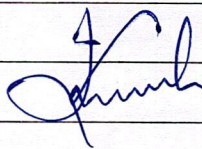
• Submitted by •

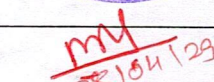
Tagtap Sanika Nivay

Roll No: 2004



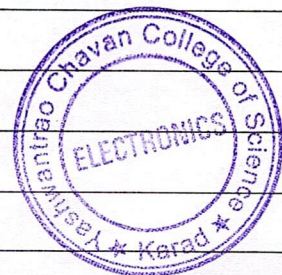

Teacher incharge




HOD

CONTENTS

- Introduction to 5G.
- Evolution from 1G to 5G.
- Key concepts
- Architecture
- Hardware and software of 5G
- Features
- Advantages
- Application.
- Conclusion



INTRODUCTION TO 5G

- What is 5G?

- 5G stand for 5th generation wireless technology.
- complete wireless communication with almost no limit.
- can be called Real wireless world.
- Has incredible transmission speed.

- What does it offer

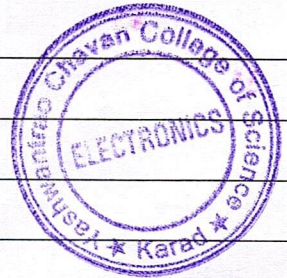
- worldwide cellular phones
- extraordinary data capabilities
- High connectivity.
- More power and saving Feature in hand held phones
- Large phone memory, more dialing speed, more in audio and video.



EVOLUTION FROM 1G TO 5G

1G

- Developed in 1980s and completed in early 1990s
- Based on analog system
- Speed upto 2.4 Kbps
- AMPS (Advance mobile phone system) was launched by the us and it was the 1G mobile system.
- Allows user to make voice calls in 1 country.



TC

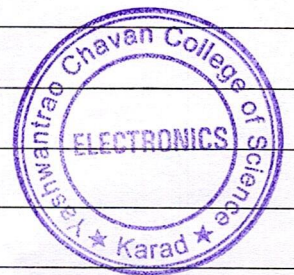
2G

- Developed in late 1980s and completed in late 1990.
- Based on digital system
- Speed up to 64 kbps.
- Services such as digital voice and SMS with mobile clarity.
- Semi global facility.
- 2G are the handsets we are using today with 2G having more capabilities.



3G

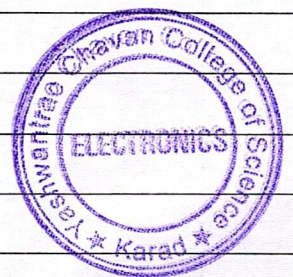
- Developed between late 1990s and early 2000s.
- Transmission speed from 125 kbps to 2 Mbps
- Superior voice quality
- Good clarity in video conference.
- E-mail, PDA, information surfing on-line shopping! banking, games etc
- Global roaming.



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4G

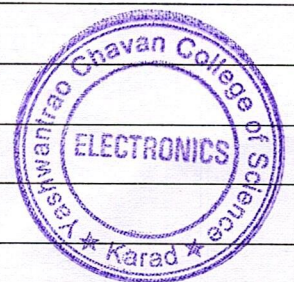
- Developed in 2010.
- Faster and more reliable
- Speed up to 100mbps.
- High performance
- Easy roaming
- Low cost.



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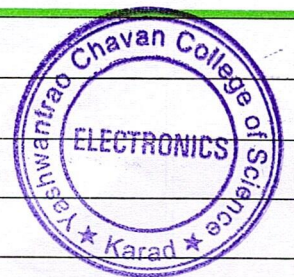
5G

- Next major phase of mobile telecommunication and wireless system
- 10 times more capacity than others
- Expected speed up to 1 Gbps
- More faster and reliable than 4G
- Lower cost than previous generation



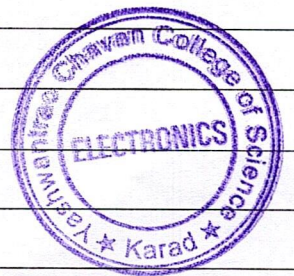
KEY CONCEPT

- Real wireless world with no more limitations with access and zone issues.
- Movable devices.
- IPVS, where a visiting care of mobile, its address assigned according to location and connected network.
- one unified global standard
- Smart radio
- The user can be connected with several wireless access technology
- Multiple concurrent data transfer path



HARDWARE OF 5G

- 5G Hardware
- uses UWR (ultra wide Band) Network with higher BW
- BW is 400 Mbps, which is 400 times faster than today's wireless network.
- use smart antenna
- uses (CDMA) code division multiple access.

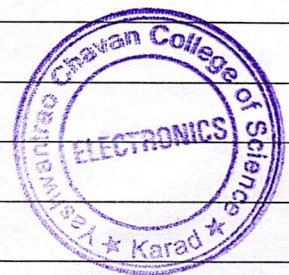


SOFTWARE OF 5G

5G will be single unified standard of different wire network including LAN technologies, LAN/WAN, WWW world wide wireless web, unified IP & Seamless, combination of broadband.

Software defined radio. encryption, Anti-virus

High resolution for crazy cell phone users.



FEATURES OF 5G

- High resolution for crazy cell phone users.

Bi-directional large BW

less traffic

25 Mbps connectivity speed.

Enhanced and available connectivity just about the world

uploading and downloading speed of 5G touching the peak (up to 1 Gbps)

Better and fast solution

High quality service based on policy to avoid error.

Support virtual private networks.

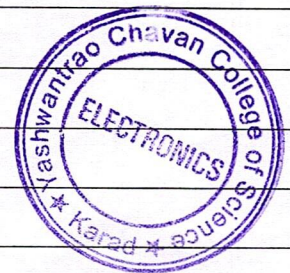
more attractive and effective

provides subscription tools for fast action.



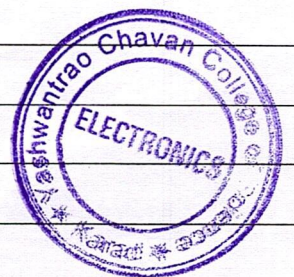
ADVANTAGES OF 5G

- Data rate of 1 Gbps or higher
- Globally accessible
- Dynamic information access
- Available at low cost



APPLICATION OF 5G

- Wearable devices with AI. (Artificial Intelligence) capabilities.
- Global networks
- Media independent management
- Radio resource management
- VoIP (Voice over IP) enabled devices
- with 6th sense technology



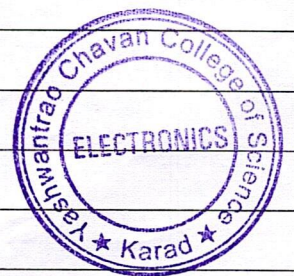
CONCLUSION

3G - operator centric

4G - service centric wherever

5G - user centric

- We have proposed 5G wireless concepts designed as open platform on different layers
- The new coming 5G Technology will be available in the market at affordable rates, high peak power, much reliability than preceding technologies.



Sample Feedback Form

Yashwantrao Chavan College of Science, Karad
Department of Electronics
Feedback form



Name of the Activity- Students Seminar

Class:.....B.Sc.-II.....

Roll No.....2017.....

		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.....Tapase Ganesh Niles.....

Date: 28-2-2022-23

Sign. Ganesh

Yashwantrao Chavan College of Science, Karad
Department of Electronics
Feedback form



Name of the Activity- Students Seminar
Class: B.Sc-II

Roll No. 2018

		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..... Tewar Mukesh Ramesh

Date: 26-02-24


Sign.

Yashwantrao Chavan college of science, Karad

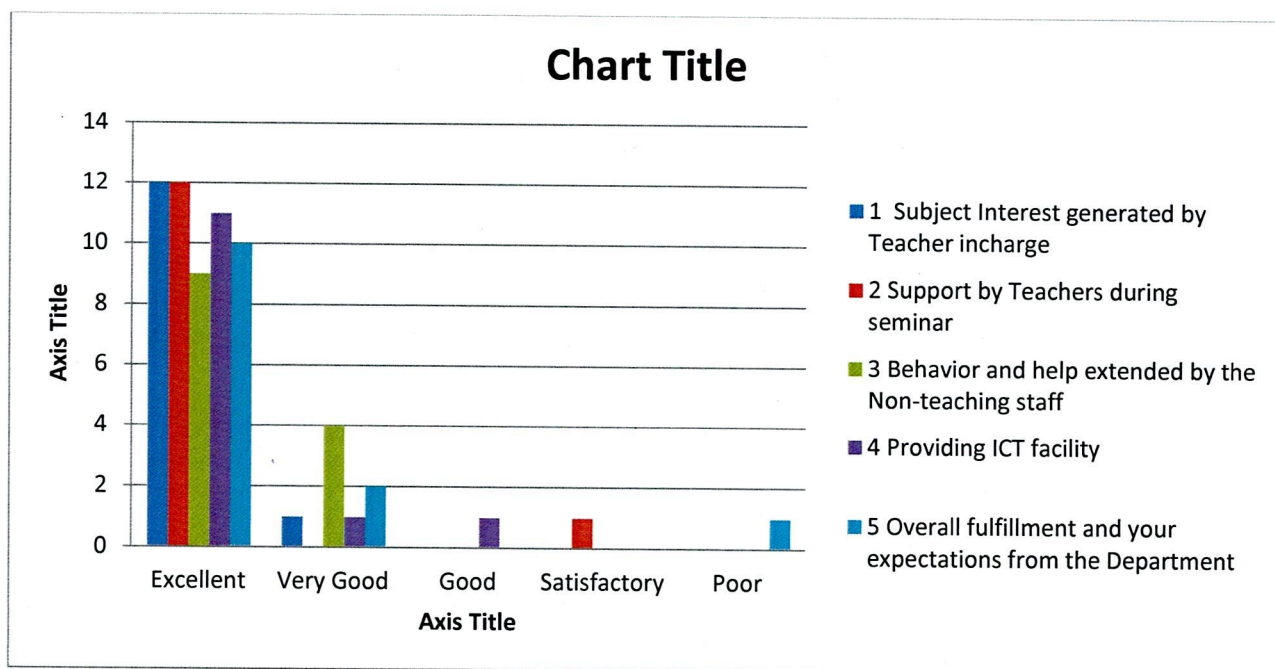
Department of Electronics



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

No. of Students- 27

		Excellent	Very Good	Good	Satisfactory	Poor
1	Subject Interest generated by Teacher incharge	12	1			
2	Support by Teachers during seminar	12			1	
3	Behavior and help extended by the Non-teaching staff	9	4			
4	Providing ICT facility	11	1	1		
5	Overall fulfillment and your expectations from the Department	10	2			1



[Signature]
Principal

Yashwantrao Chavan College of Science, Karad

[Signature]
HEAD

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