Yashwantrao Chavan College of Science, Karad
Department of Electronics
Student Seminar - B.Sc.II
Academic Year - 2023-24

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Yashwantrao Chavan College of Science,
Karad

Principal
Principal
Yashwantrao Chavan College of Science, Karad

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YASHWANTRAO CHAVAN COLLEGE OF SCIENCE KARAD

ACTIVITY REPORT

Name of the Department: Electronics	Academic Year – 2023-24
	Date :- 26/3/2024

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	11
No. of Teachers Participated	04
Program outcomes	1) Personality Development: Stage daring, Presentation Skill, communication Skill, Explanation ability, Courage etc. 2) Developing Leadership Skill. 3) A well Trained Students.
Program Photo	

Saidapur,MH,India
SH 75, Vidyanagar, Saidapur, 415124, MH, India
Lat 17.308783, Long 74.188644
03/26/2024 11:17 AM GMT+05:30
Note : Captured by GPS Map Camera

Teacher In charge

Signature
Head of the Department

Signature
Principal
Yashwantrao Chavan College of Science, Ka

Yashwantrao Chavan College of Science, Karad

Department of Electronics
Student Seminar 2023-24
Class: -B.Sc.II
Notice

Date : 20/03/2024

All students of the B.Sc. II class are informed that, a student seminar is arranged on 26/03/2024 at 11:00 Am in the electronics department. It is compulsory for all students. All should note and follow. p

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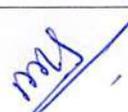
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Yashwantrao Chavan College Of Science Karad

Department Of Electronics

Name of the activity : Students Seminar B.Sc.II

Year :- 2023-24

Date : ------ 14 | 03 | 2024 --

Sr.No	Student Name	Class	Signature
1	Kashid Dhanashri Gurunath	B.Sc.II	DKashid
2	Pawar Anjali Ganpat	B.Sc.II	APawar
3	Mulik Akshay Eknath	B.Sc.II	Amulik
4	Nande Viswajeet Sampat	B.Sc.II	
5	Nikaje Om Vijay	B.Sc.II	O.V.Nikalje
6	Ghadage Shivaji Satish	B.Sc.II	S.SGhadge
7	Yadhav Suraj Arjun	B.Sc.II	S.yadav
8	Pisal Siddesh Dipak	B.Sc.II	Pisal
9	Ram Prashankumar Sunil	B.Sc.II	Prashan
10	Thorat Rohan Dadaso	B.Sc.II	Thorat
11	Reur Sufin Mohammad	B.Sc.II	SMR

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YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

DEPARTMENT OF ELECTRONICS

Seminar Report Title B.Sc.II

Academic Year 2023-24

Sr.No.	Name of student	Seminar Title
1.	Kashid Dhanashree Gurunath	Zigbee
2.	Pawar Anjali Ganpat	Robotics
3.	Nande Vishwajeet Sampat	5G Technology
4.	Nikalje Om Vijay	Smart Phone
5.	Ghadage Shivaji Satish	Wi-Fi
6.	Mulik Akshay Eknath	Biomedical Instrument
7.	Pisal Siddesh Deepak	Nano- Sensor
8.	Ram Prashantkumar Sunil	Sensor Technology
9.	Thorat Rohan Dadaso	PLC
10.	Reur Sufian Mohammad	EEG
11	Yadav Suraj Arun	Sensor Technology

Teacher Incharge

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Department of BOD Electronics
Yashwantrao Chavan College of Science,
Karad

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YASHWANTRAO CHAVAN COLLEGE OF SCIENCE KARAD....

"DEPARTEMENT OF ELECTRONICS"

NAME :- RAM PRASHANTKUMAR SUNIL.

ROLL NO :- 1076.

SEMINAR NO - SENOSOR TECHNOLOGY

Teacher
in charge

Examiner
28/3/24

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SENSOR TECHNOLOGY.

INTRODUCTION

A sensor (also called detectors) is a device that measures a measurable attribute and converts it int a singnal which can be read by an observer or by an observer or by an instrument.

The heed for new types of sensor is more critical than ever. This is due to the emergence of increasingly complex technologies, health and security concerns of increasing world population & the emergenc of terrorist activities. among other Factors sensor are the most important component in any system & engineers in any field need to understand the fundamen of How these components work how to select them properly & how to integrate them into a over all syste Depending at the their application.
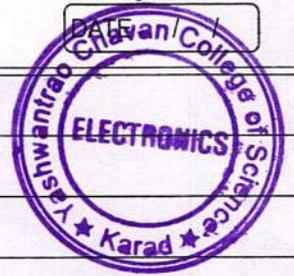
WORKING PRINCIPLE.

The working principle of resistive sensors is base on the change in electrical resistance that occurs when the sensor's material is subjected to change in a physical quantity. For example. in a temperature sensitive, the resistance change with temperature.

- <u>Thermistors</u> — These sensor change their resistance with temperature and are commonly used in temperature sensing & control application.

- <u>Photoresistance</u> — These sensor change their resistance with their intensity & are used in application such as light detection & ambient light sensing.

PROGRAMING LANGUAGE

Choosing a programming language for automotive manufacturing sensors is an important first step. There are many languages to choose from including C, C++, Python, Jawa, Arduino.

APPLICATIONS

- Measure the portion of the UV spectrum which sunburn human skin.

- Pharmacy.

- Automobiles.

- Robotics.

- printing industry for solvent handling & deying process

- chemical industry for the production storage and transportion of chemicals

- Fluid level sensors.

- commerical, medical, vending fitness & graming.

ADVANTAGES.

Has no effect on the medium it measure.

It precisely accurate.

Responds intantly

Has on easily conditioned output.

Accuracy.

No self-heat.

self-powered.

overall cost is low

Ease of use

DISADVANTAGES

Non- linerity

Moisture Failures

limited applications.

FUTURE ASPECTS

In the Future maintenance will reply on sensor instead of being carried out according to the need based timetable. safety will also predicted. Autonomou sensor technology will becomes possible. The recent adva of sensor technological have been powered by high·spe and low cost electronic circutis 'novel signal processir method and innovative advance in manufacturing technologies.

CONCLUSION

    owing to its wide range of application sensor technology is Fast gaining momentum in modern day technological world. Its application to vary From common home application to highly sophisticated electrical, electron equilipment.
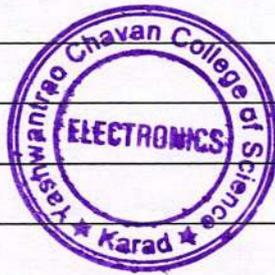
Yashwantrao Chavan College Of Science Karad

Name :- Sufian Mohammad Reur

Roll No :- 1077   **B.Sc. II**

Departement of Electronics
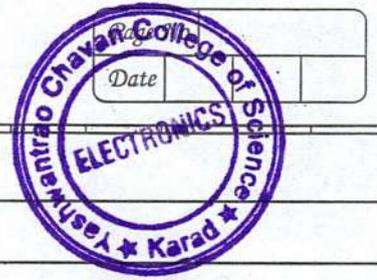
Seminar no :-

Teacher
incharge

Examiner
28/03/24

Head of
Department

EEG

- Introduction
- Working Principle
- Programing Language
- Applications
- Advantages
- Disadvantages
- Future Aspects
- Conclusion
- Reference

Introduction

The full form of EEG is Electroencephalo gram. It is a procedure that is carried out to evaluate the barain's electrical behaviour. Brain cells, known as neurons, interact through electrical impulses with one another. EEG includes a brain wave metric, which is how the brain function throught time it detects brain wave metric, which is how the brain patterns of the brain's electrical impulses and records them.

- Tiny metal discs with a fine wire that are labelled as electrodes arrive with the system that users perform the test.

- The electrodes are mounted on the scalp of from where it passes signals to the computer to track the result.

- It produces a standard or identifiable pattern for familiar brain activity. but the pattern can be altered or unrecognizable for abnormal brain activity.

Working Principle

- The EEG procedure is safe and pain free.

- The electrodes mounted on the scalp collect electrical activity within your brain from the brain cells known as neurons and forward it to a system where they are seen as a series of lines registered or shown on a computer monitor (running paper).

- The A technician would take the electrodes off after getting results.

- Your brain wave sequence recordings can be studied by a doctor specializing in the brain, like a neurologist.

Programing Language

In data science, a few languages are particularly widely used. The internet is rife with clickbait-y pages such as "Top languages every data scientist should know in 202x", while these may rely on questionable methodologies, a general survey of such pages reveals a fairly consistent set of languages, including Python, R, MATLAB, C, Java, SQL, Julia, and scala. Within the field of neuroscience, however, the most common languages you're likely to come across are Python, R, and MATLAB. Indeed, a survey I conducted of faculty in the Department of Psychology & Neuroscience at Dalhousie University (April, 2020 n=11) supports this claim, as shown in the plot below (Note that SPSS is still widely used in statistics, but apparently far less in industrial data science applications).
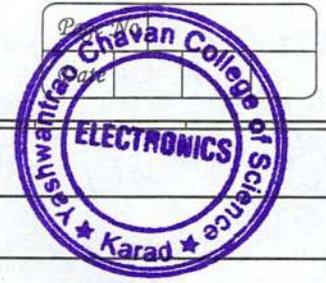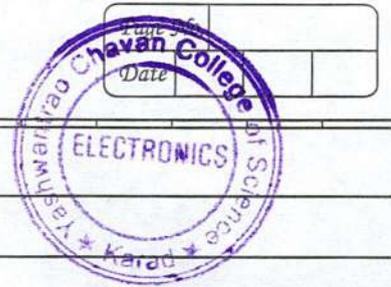
Application

- Epilepsay

- Brain death testing

- Various brain cancer sleep disorders (insomnia), nacrolepsy, (uncontrollable sleep).

- Sleep paralysis (inability to move during full consiousness)

- Choronic hypersomnia (excessive sleep or sleepiness)
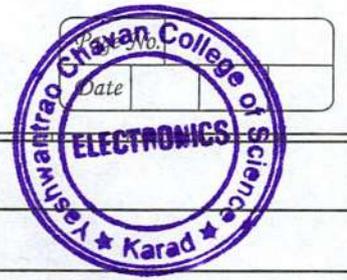
Advantages

- Non - invasive & harmless

- Lower costs

- Portable

- High temporal resolution

Disadvantages

- High noise ratio
- Not very exact measuring
- Skull weakness the electrical activity
- Low spatial resolution.

Yashwantrao Chavan College of Science, Karad

Department of Electronics
Feedback form

Name of the Activity – Industrial Visit B.Sc. II

Name of the Student: .... Milik   Akshay Eknath

Class:....BSC I........Roll No............1220

		Excellent (5)	Very Good (4)	Good (3)	Satisfactory (2)	Poor (1)
1	Industrial Visit was Held Organized	✓				
2	The location Selected was Appropriate to meet Started object.	✓				
3	Industrial expert was responsive to the Students dump Visit.		✓			
4	Higher recommend the Field visit to be continued .		✓			
5	Over all Departmental co-operation & management .	✓				

Date: : 14-3-24   Sign. Amulik

Yashwantrao Chavan College of Science, Karad

Department of Electronics
Feedback form

Name of the Activity – Industrial Visit B.Sc. II

Name of the Student: ......Yadav Suraj Arun......

Class:..BSC-II..Roll No....1079.

		Excellent (5)	Very Good (4)	Good (3)	Satisfactory (2)	Poor (1)
1	Industrial Visit was Held Organized	✓				
2	The location Selected was Appropriate to meet Started object.	✓				
3	Industrial expert was responsive to the Students dump Visit.	✓				
4	Higher recommend the Field visit to be continued .	✓				
5	Over all Departmental co-operation & management .	✓				

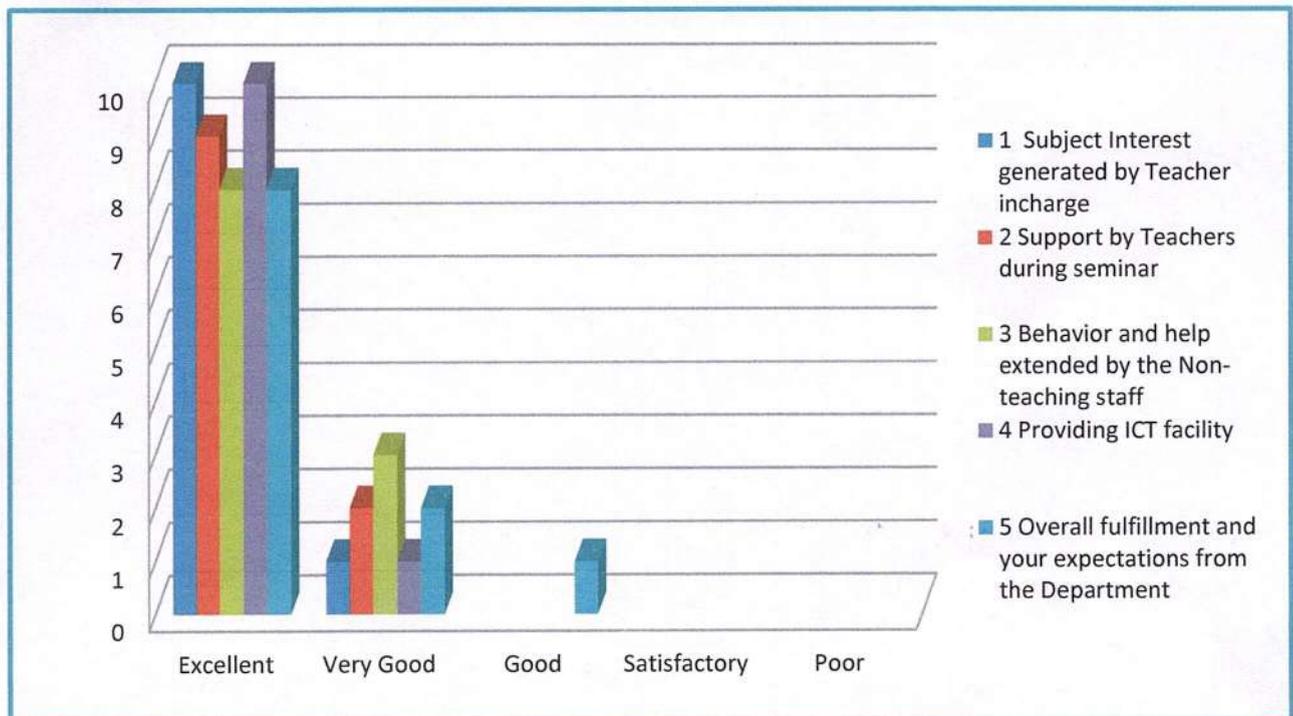Date 14/03/24   Sign. S.yadav

YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Department of Electronics
Name of the Activity :- Student Seminar - B.Sc.II
Feedback Analysis - 2023-24

		Excellent	Very Good	Good	Satisfactory	Poor
1	Subject Interest generated by Teacher incharge	10	1			
2	Support by Teachers during seminar	9	2			
3	Behavior and help extended by the Non-teaching staff	8	3			
4	Providing ICT facility	10	1			
5	Overall fulfillment and your expectations from the Department	8	2	1		

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