Yashwantrao Chavan College of Science, Karad

Department of Electronics

Student Seminar -2021-22

Class – B.Sc.II

INDEX

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Yashwantrao Chavan College of Science,
Karad

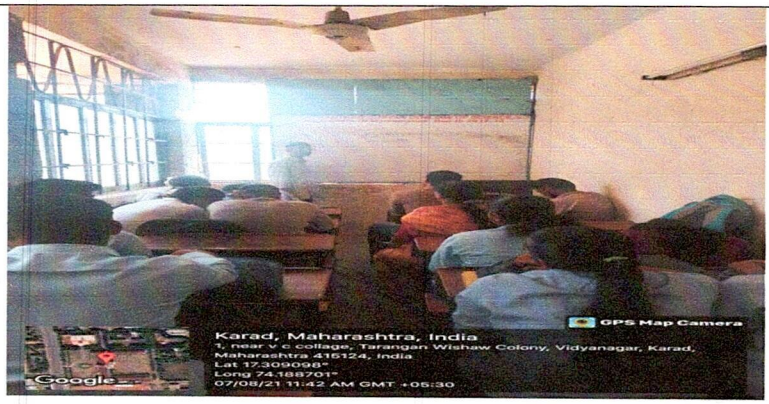
Principal
Yashwantrao Chavan College of Science, Karad

Yashwantrao Chavan College of Science, Karad ELECTRONICS Karad

Yashwantrao Chavan College of Science, Karad

ACTIVITY REPORT

Name of the Department: Electronics	Academic Year – 2021-22

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	12
No. of Teachers Participated	02
Program outcomes	1) A well Trained Students 2) A student with improved a presentation skill
Program Photo	

Teacher In charge

Signature
Head of the Department

Signature
Principal

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Department of Electronics
Yashwantrao Chavan College of Science
Karad

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Yashwantrao Chavan College of Science, Karad

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Department of Electronics

Student Seminar 2021-22

Class: -B.Sc.II

Notice

Date : 18/02/2022

All students of the B.Sc. II class are informed that, a student seminar is arranged on 20/02/2022 at 1:00 pm in the electronics department. It is compulsory for all students. All should note and follow.

Head

Department of Electronics
Yashwantrao Chavan College of Science,
Karad

YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Department of Electronics

Students Attendance B.Sc. II 21-22

Name of the Activity: Students Seminar

Date: 7/02/22

Yashwantrao Chavan College of Science * Karad * ELECTRONICS

Sr. No.	Students Name	Class	Signature
1.	Surve. S.S.	B.Sc-II	S.Surve
2.	Suryawanshi S.B	B.Sc II	S.S.B
3.	Pol. P.G.	B.Sc II.	Pola
4.	Rathod Sachin	BSc-II	Sachin
5.	Pawar. A.S.	BSc-II	Pawar.A.S
6.	Pawar P.S	BSc-II	Pawar
7.	Pawar A.A	B.Sc-II	A.A.Pawar
8.	Jadhav V.K	B.Sc-II	VKJadhav
9.	M.M. ghadgha	B.Sc II	M.M.ghadgha
10.	Deshmokh V.S	B.Sc-II	Deshmokh VS
11.	Bhandare V P	B.Sc-II	VPBhandare
12.	Paradkar. Sri.	B.Sc II	Paradkar.S.V.
13.	Khadbale yogita.D	B.Sc-II	Yadbale
14.			
15.			
16.			
17.			
18.			

Smt A.A Mulla

HEAD
Department of Electronics
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 2021 -22

Sr.No.	Name of student	Seminar Title
1.	Dubal Harshani Nivas	Optical Fibre Communication
2.	Londhe Ankita Avinash	LVDT(LinearVariableDifferential Transformer)
3.	Shedage Sayal iAbaso	IOT (Internet of things)
4.	Todkar Sairaj Dnyaneshwar	Robotics
5.	Pawar Jeevan Sanjay	RS-232
6.	Mohite Aditya.Subhash	Helical Antenna
7.	Kadole Tejas Sambhaji	Arduino
8.	Gurav Aditya Krishnat	Li-Fi Technology
9.	Salunkhe Pratik Niranjan	Wireless Electricity
10.	Desai Shriyash Samhaji	Architecture of Embedded system
11.	Kharade Baljeet Dhondiram	Bluetooth Technology
12.	Zarekar Sanket Subhash	Packed BCD to ASCII Conversion & ASCII to Packed BCD Conversion

Teacher Incharge

Yashwantrao Chavan College of Science ELECTRONICS Karad

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Department of Electronics. Seminar Report

NAME :- KADOLE TEJAS SAMBHAJI

STD :- BSC II, ROLL NO :- 2005

Name of seminar topic :-

ADRUINO SEMINAR REPORT

TEACHER INCHARGE

EXAMINER

HEAD OF DEPARTMENT

Yashwantrao Chavan College of Science, Karad
ELECTRONICS
Karad

HEAD
Department of Electronics
Yashwantrao Chavan College of Science, Karad

Principal
Yashwantrao Chavan College of Science, Karad

ARDUINO

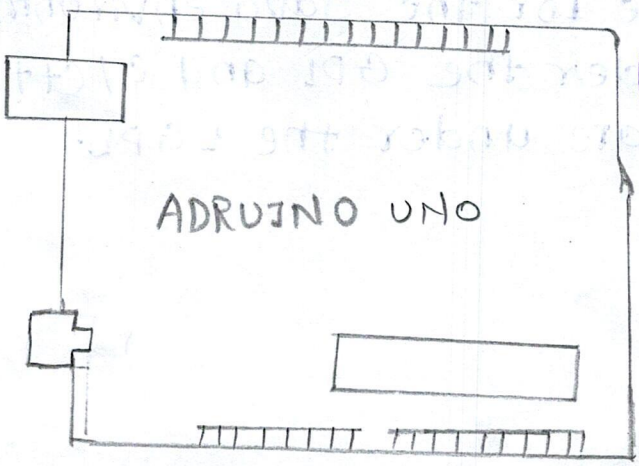
WHAT IS ARDUINO?

Arduino is open source electronics prototyping platform based on flexible-easy-to use

Hardware and software it is intended for artists, designers and anyone interesting in creating interective objects or environments.

It is open source physical computing platform based on a microcontroller board., and development environment for writing software of the board.

In simple words, Adruino is a small micro-controller board with a usb plug to connect to your computer & a number of connection sockets that can be wired up to external electronics such as motor, relays, light sensor, laser diodes loudspeaker, microphone etc. They can either be powered through the 'USB' connection from the computer and from a 9v battery, They can be controlled forom the computer and programmed by the computer and then disconnected and allow to work independently.



History of ADRUINO :→

while teaching a physical computing class at the interaction design institute Ivrea in 2005. Massimo Banzi's students were unwilling to spend the 76 euros for the BASIC stamp microcontroller commonly used in such application. BRAZI and his colleguse. looked for alternative finally setting on the wiring platform developed by one of Banzi's student. In his own words

* Design Goals :-

- Work with a mac (as most design student use one.)
- USB Connectivity (Mackbooks dont have serial poart)
- Cheap (about 20 euros, the cost of going out pizza in europe)
- More powerful than Basic stamp.
- Something you could build / fix yourself

Simple and easy to use by someone without formal electronics training.

Adruino UNO :-

This is the latest revision of the basic adruino USB board. It connects to the computer with a standard USB cable and contains everything else you need to program and use the board. It can be extended with a variety of shields custom daughter-boards with specific features. It is similar to serial chip ATM ega8v2. and newly designed labelling to make inputs and outputs easier to identify.

YASHWANTRAO CHAVAN COLLEGE OF SCIENCE KARAD.

Department of Electronics.

Name :- Sanket Subhash Zarekar.

Standard :- B.Sc II

Roll No :- 2022

Name of topic :-

Packed BCD to ASCII conversion

and

ASCII to packed BCD conversion.

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EXAMINER

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What Does BCD Mean :-

BCD = Binary coded decimals.

In this code, decimal digits 0 through 9 are represented by their Natural binary equivalent using 4 bits. For example $(35)_{10}$ is represented by 0011 0101 using BCD code, instead of 100011 in binary system. Thus even through only 0 and 1 are used in BCD code. It is different from binary number system. It requires more numbers of bill using BCD code than using binary code BCD code is also called as 8421 code. It is weighted code.

BCD code is identical to binary for decimal number from 0 to 9 but 1001 is largest group and 1010 to 1111 (corresponding from 10 to 15) are forbidden groups.

Applications :-

① It is used for input and output operations in digital system.

②. BCD code is used in electronic counters, digital voltmeters and digital clocks.

③. BCD code is used in pocket calculator.

ASCII Table :-

Key	ASCII (HEX)	Binary	BCD (unpacked)
0	30	0011 0000	0000 0000
1	31	0011 0001	0000 0001
2	32	0011 0010	0000 0010
3	33	0011 0011	0000 0011
4	34	0011 0100	0000 0100
5	35	0011 0101	0000 0101
6	36	0011 0110	0000 0110
7	37	0011 0111	0000 0111
8	38	0011 1000	0000 1000
9	39	0011 1001	0000 1001

It must be noted that BCD numbers are universal although ASCII is standard in united states. Because, the keyboards, printers, monitors are all use ASCII

Packed BCD to ASCII

conversion :-

In many system we have what is called a real time clock (RTC). The RTC provides the time of the day. and date continuously regardless of wheather the power is ON or OFF. This data however is provided in packed BCD. For this data to be displayed on a derice such as an LCD or to be provided to printer it must be in ASCII standards. format.

ASCII to Packed BCD conversion :-

To convert ASCII to packed BCD, you first convert it to unpacked BCD and then combine it to make packed BCD. For Example, For 4 and 7. keyboard gives 34 and 37 res.. The goal is to produce 47 H to "0100 0111" which is packed BCD. This process is called illustrated next.

Key	ASCII	Unpacked BCD	Packed BCD
4	34	0000 0100	0100 0111
7	37	0000 0111	which is 47H.

```
MYBCD EQU 0X20
MOVLW A '4'
ANDLW 0X0F
MOVWF MYBCD
SWAPF MYBCD,F
MOVLW A '7'
ANDLW 0X0F
IORWF MYBCD,F
```

After this conversion the packed BCD numbers are processed and the result will be in packed BCD formats.

Yashwantrao Chavan College of Science, Karad

Department of Electronics

Feedback form 2021-22

Name of the Activity– Students Seminar

Class:.....B.Sc.-III..... Roll No.....2007

		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.....mohithe aditya sushash.....

Date: 22-02-22

mohithe a.s
Sign.

Yashwantrao Chavan College of Science, Karad

Department of Electronics

Feedback form 2021-22

Name of the Activity– Students Seminar

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

Roll No..... 2003 .....

		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..... Dubal Hamshani Nivas .....

D.H.N

Sign.

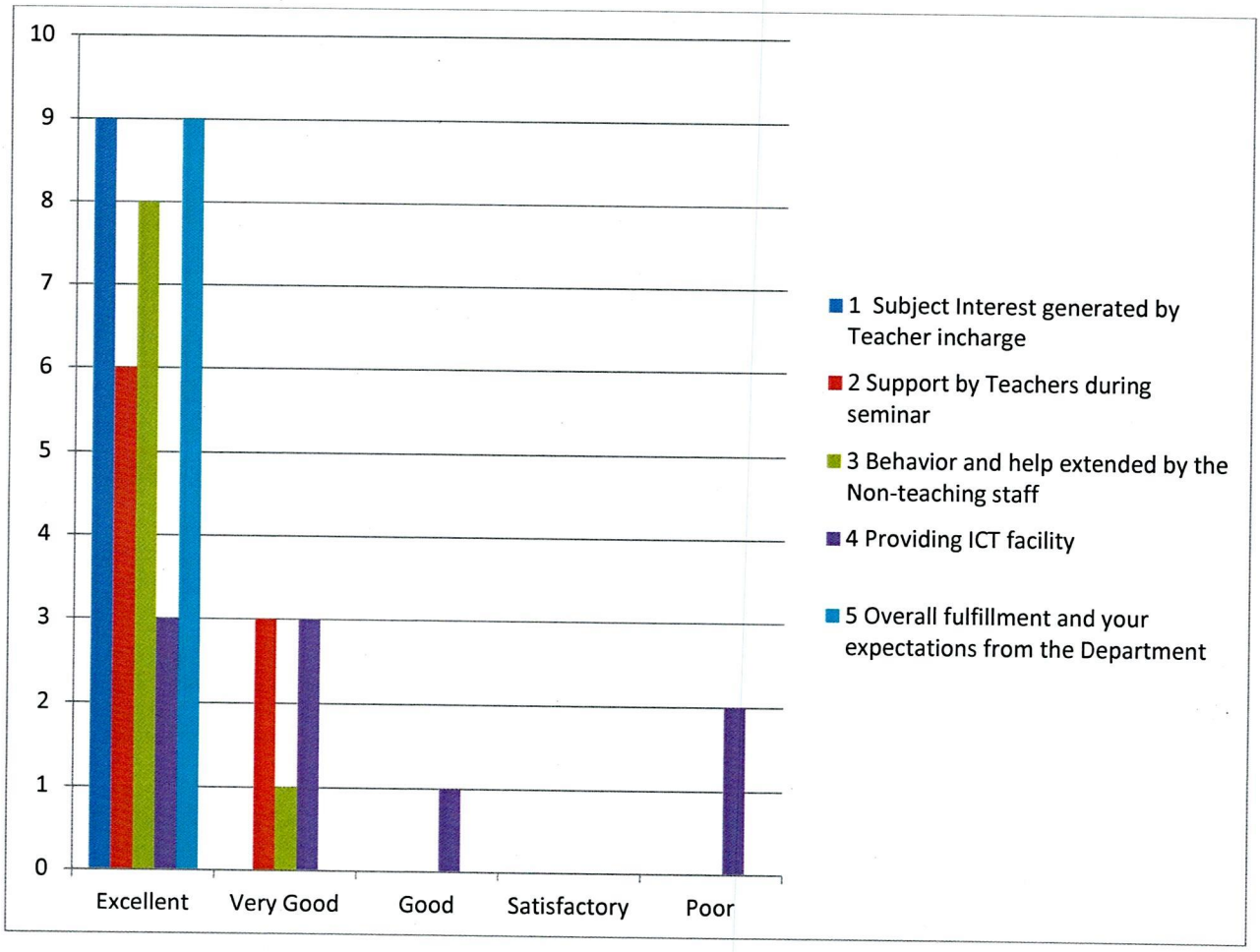
Date: 27/02/2022

Yashwantrao Chavan College of Science Karad
Department of Electronics

Name of the Activity– Students Seminar B.Sc. II **(2021-22)**

No. of Students - 18

		Excellent	Very Good	Good	Satisfactory	Poor
1	Subject Interest generated by Teacher incharge	9				
2	Support by Teachers during seminar	6	3			
3	Behavior and help extended by the Non-teaching staff	8	1			
4	Providing ICT facility	3	3	1		2
5	Overall fulfillment and your expectations from the Department	9				



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