

### **Department of Electronics**

Student Seminar -2020-21

Class - B.Sc.III

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HOD

Department of Electronics
Yashwantrao Chavan College of Science,
Karad

Primoipal

### **ACTIVITY REPORT**

Name of the Departr	Academic Year – 2020-21				
Name of the activity	B.Sc. III Electronics Stude	.Sc. III Electronics Students Seminar			
Purpose of	To impose presentation sk	ill in a student			
Program	To impose stage daring ir	a student			
No. of Students	18				
Participated					
No. of Teachers	05				
Participated		3			
Program outcomes	1) A well Trained Student				
	2) student with sta	age daring			
Program Photo					



Teacher In charge

Signature Head of the Department

HEAD

Signature IQAC Co-ordinator

#### **Department of Electronics**

Student Seminar 2020-21 Class: -B.Sc.III Notice

Date:02/01/2021

All students of the B.Sc. III class are informed that, seminar is arranged on 05/01/2021 at 12:00 pm in online mode. 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. III 20-21

Name of the Activity: Students Seminar

Date: 13/01/2021. (B.SC-III) 20-21

Sr. No.	Students Name	Class	Signature
1.	Bhandone Veryha	BSCIII	Buesty
2.	Chelle Aakonksha	B.S.C.IIL	fresh
3.	chitnis Araya.	B.SCIII	Jan a.
4.	Deshmukh A. V.	B'SCTH_	DAV.
5.	Dubal · R·B	12.5C-III	P.B. Duba
6.	Deshmuk.A.5	Bsc-III	Deshouk A.V
7.	Sinde G.S.	.B.ScIII	5.44
8.	Desai A.S.	BSC-III	Desai
9.	Duloal R. B.	B.Sc-III	D.Rutyja
10.	Dixit Neha Nandkish	B.Sc=IIT	Oneha-
11.	Gurau S.S	BISC-IIL	STUVAU
12.	Joshi P.S	B.S.C III	P.S.Joshi
13.	Mohite Pratiksha Uttum	BSC III	Prohite
14.	More A.J	B.SC-III	Amore
15.	Malla A.D.	Bisa III	Amyter
16.	Pahil. Amr wha - Yikas	BSC=TH	Fahl.
17.	Nationale Aditya Narrayon	B. Sc	ANund
18.	Vetal. R.S.	B.Sc.III	Plotal.



Department of Electronics

Yashwantrao Chavan Conege of Science,

Karad

Principal

Yashwantrao Chavan College of Science, Karad

ELECTRONICS

### YASHWANTRAO CHAVAN COLLEGE OF SCIENCE KARAD

### DEPARTMENT OF ELECTRONICS

#### Seminar Report

#### B.Sc.III

#### Academic Year 2020 -21

Sr.No.	Name of student	Seminar Title			
1.	Chalke Aakanksha Arun	Bluetooth Technology			
2.	ChitnisAryaChandrashekhar	Design and construction of speed control of vehicle			
3.	Desai AniketShivajirao	Hotspot			
4.	DeshmukhAniketVinayak	Smart antenna technology			
5.	DubalHrutuja Bharat	3G,4G,5G Technology			
6.	GuravSanket Sunil	Wi-Fi Technology			
7.	JadhavShashankshivaji	5G Technology			
8.	Joshi PrasannaSharad	Nano Technology			
9.	KadamVrushaliRavindra	Type of Flip -Flop			
10.	MohitePratikshaUttam	Microcontroller			
11.	More AbhijeethJangam	Helical Antenna			
12	MullaAshpakDadamiya	IOT			
13.	NalawdeAditya Narayan	RS-232			
14.	PatilAmrutaVikas	PLC			
15.	PatilAshitoshadhikarao	Robot arm			
16.	SapkalAswiniKrishnat	6G mobile Technology			
17.	ShindeAbhishekBaban	3D Internet			
18.	VetalRushikesh Sanjay	Light emitting diode display			

Teacher Incharge

HOD

## ELECTRONICS DEPARTMENT

# Seminar

Name - Mohite Pratiksha Uttam

Std - B.SC. IIL

Sub - Electronics

Teach in-charge

Head of the Department

External Examiner

Principal



\* Em Embedded Systems:

I An embeadded systems is a specical-purpose computer system designed to perform one or a few dedicated function as a personal computer, can do many different

tasks depending on paggarmming 31 A wide variety of the electronic devices we use

loday come under embedded Systems.

4) From a simple toy car, traffic lights to cell phones but of different devices we use today come e complexity

5] Hence the Micoocontroller.

## Why Microcontaollers:

I A Microcontrollers is a complete microprocessor system built an a single Ic.

2) Microcontroliers were developed to meet a need for microprocessor to be put into low cost products.

31 Building a complete microprosesses system

on a single chip substantially settles the cost of building simple products, which use the

## Blocks of a Microcontroller

CPU COOC

· This is the processing unit which executes The program

Flash Memory

- The place where the program is stored. This is read by the cpu core and executes each
- instruction
  Non-volatile Cremains even after temporary

SRANI ot broggo en i porote

· RAMI used by the cpu to store temporary variables · volatile

monosy to program

EEPROM

- @ 12019 for storing finished results or dala for future, use
- ent older an word valatifers of to estudy of

110 Ports Moggad estudiste

· Digital posts used for input /output to control leds vête VEE Engation gaitorago Interal calibaated oscillatur 1, 2, 9, 8 Mh

Peripheralsus sont til 8 of an College 6 ADC+11100) SOMIT HID OF ELECTRONICS

Andiog Compagator



## Basic 1/0 Port Configuration

- and read values from them.
- Glowing LED or activating lenabling external circuits by writing a high or low to
- Readings states from sensors.

## Ports and port pins

- o 41/0 ports; port A, B, c, D also denoted as pA, PB, pc, PD
- Each port has 8 lines that can be independently set as 14/L
   Each of the 8 lines can be configured
- independently as an input or on output pin
- o The above feature is called True Read Modify Write Functionality
- Pin drivers use strong enough to drive LEO; directly
- · All pins have voltage invariant interpal pull up resistors
- Each of them can be individually quilled up as 14/2

o Two wire interface (12 c bus)

connects to external devices that talk through
this bus, to eg SRF-04 sonar rangers

o Spl serial interface

A serial protocol/standard for talking to
external devices, developed by Motorola.

extermal devices, developed by Molozola.

Analog devices accelerometers use this
Interface

· programmable serial USART

2	Pin-OUT Poid
	(RESET) PC6 [ 18 PCS (ADCS/SCL)
	(RXPPD 0 = 2 PC4 (ADC4/SDA)
71 feet 1	(TXD){PD1 = 3 25 PC3 (ADC3)
	(INTO)PD2 I 4 25 PC2 (AD(3)
	CINTUPDS IS 24-1PCI CADCI)
	(x C/C/TOJPD4 TO CADCO)
×.	VCC 17 24 GND
	GND [ Bom a Do part AREF &
Mouth	MLATALI/TOSCUPBOS 9 2005 2 TIAVEC
	TOO (XTALZ/TOSCUPBODIO O O O O O O O O O O O O O O O O O O
	(TI) PDS [1000000000000000000000000000000000000
	(AINO) PDO 12 12 12 12 13 (MOSi/OCZ)
	(AINI) PD2 = 13 10000 10 10 10 13 2 (55/0613)
	(ICPI) PBO I 14 rolled 15 TPB 1 COCIA
	6 Rest cidealy high, pull to low the control
	· VCC, Gnd power · Avcc. Aref Apc.
	· Avec. Aref Ap C.

Example Un signed charoi; Wizzonia tid el 1\* pefine pull-ups and set outputs high \*/ 1x perine directions for Port pins \*/ PORTB = (144 PB7) | (144 PB ()) (124 PB 1) + (1 42 PB 1); DDRB = (1400133) 1 (12400132) 1 (12200B1) 1 (1400130) 1+ Insert nop for synchronization =1 - NOP(); 13 Read port pins 1/12 2009 i = PENB; Short painaus Peripheral programming · Important Registers to be considered while using perpherals \* \* control register · used to specify mode of operation, control interrupts \* status register

· contains interrupt flags and otherwitings

Indicating state of operation

\* Data register

and data, finished results \* status register · contains end data, finished r

### Yashwantrao Chavan College of Science, Karad Department of Electronics

Feedback form 20-2

Name o	f the Activity-Studer	its Seminar
	BISC -TIT	

Roll No...30

3076

ELECTROMICS

		Excellent (5)	Very Good (4)	Good (3)	Satisfactory (2)	(1)
1	Subject Interest generated by Teacher Incharge	-			LE LE	
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. Gusav 5:5	

Date: 13/81/202/

Sign. SSGURAU

#### Yashwantrao Chavan College of Science, Karad Department of Electronics

Feedback form 2020-21

Name	of the Ac	etivity-	Students	Seminar
Class:.	B S	2 - 11		

Roll No. 2007

ELECTRONICS of SC

		Excellent (5)	Very Good (4)	Good (3)	Satisfactor, (2)	(1)
1	Subject Interest generated by Teacher Incharge	~				
2	Support by Teachers during seminar	= "	~	1341		
3	Behavior and help extended by the Non-teaching staff	~				
4	Providing ICT facilities					-
5	Overall fulfilment and your expectations from the Department	-			12.1	

Any other suggestions if any.....

Name of the Students Pulpal Rutuja Bharat

Date: 13 | 01 | 2021

DRutyiq:

Department: Electronics

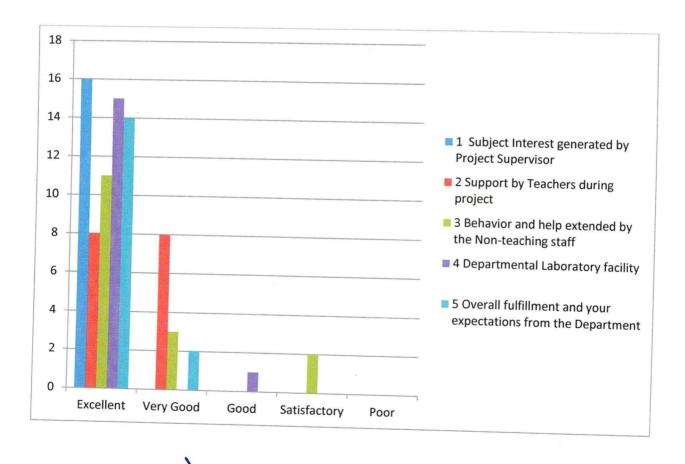
## No. of student - 18

#### Seminate

Karad

### Name of the Activity-Students Projects B.Sc. III (2020-21)

		Excellent	Very Good	Good	Satisfactory	Poor
1	Subject Interest generated by Project Supervisor	16				
2	Support by Teachers during project	8	8			
3	Behavior and help extended by the Non-teaching staff	11	3		2	
4	Departmental Laboratory facility	15		1		
5	Overall fulfillment and your expectations from the Department	14	2			



HEAD Department of Fig

Department of Electronics Yashwantrao Chavan College of Science, Karad Yashwantrao Chaurincipal