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TJS Nagar, Peruvoyal, Near Kavaraipettai, Gummidipoondi Taluk, Thiruvallur District -601206



2.3.1. Q ₁ M	Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences
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Projects



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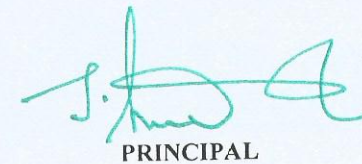
CE8811- PROJECT DETAILS

IV YEAR - VIII SEM

S.NO	Batch Name	REG.NO	Batch Member	Project Tittle	Guide Name
1	I	112818103001	DEEPIKA M	A Case study on Effluent Treatment Process Using AAVIN Dairy Waste at Ambattur.	MR.K.KAVIARASAN
2		112818103002	DIVAKAR S		
3		112818103005	SEKAR S		
4	II	112818103003	EZHILARASAN D	A study on properties of Coconut coir reinforced Concrete	MR.R.PRAVEEN KUMAR
5		112818103004	RAJESH B		
6		112818103301	BANDARU HIMANTH		


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Thiruvallur Dist - 601 208.



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
PROJECT BATCH DETAILS (2018 - 2022)



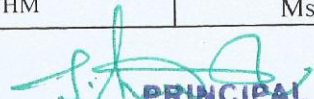
Subject Name : PROJECT WORK

Subject code : CS8811

Year / Sem : IV / VIII

BATCH NO.	REG. NO.	STUDENTS NAME	PROJECT TITLE	NAME OF THE GUIDE
1	112818104001	AASHIKA. K.	IMAGE COPY MOVE FORGERY DETECTION	Ms.V.PAVITHRA
	112818104029	KEERTHANA. R.		
	112818104041	POORNITHA. S.		
	112818104048	SHARMI V		
2	112818104002	ABAKA CHARAN SAI	COMPREHENSIVE ANALYSIS FOR FRAUD DETECTION OF CREDIT CARD THROUGH MACHINE LEARNING	Mrs.J.AGNES
	112818104004	ANDALAMALA SHABARISH		
3	112818104006	BALAJI. A.	SOCIAL MEDIA RUMOUR DETECTION USING BIG DATA ANALYTICS IN ENHANCED CLASSIFICATION ALGORITHM(TWITTER)	Mrs.J.AGNES
	112818104032	LOKESH G		
	112818104301	HARISH KUMAR		
4	112818104007	BALAJI. B.	SECURED INTEGRITY AND BATCH AUTHENTICATION IN VEHICULAR Ad-Hoc NETWORK	Ms.V.PAVITHRA
	112818104040	PAUL DHINAKARAN. J.		
	112818104042	PRASANTH. R.		
	112818104049	SIDDARTHAN. S.		
5	112818104008	BALAJI. S.	SECURED BANKING TRANSACTION USING ADVANCED HASH KEY GENERATION IN BLOCKCHAIN TECHNOLOGY	Mrs.J.AGNES
	112818104025	KAARTHICK RAJ. T.		
	112818104027	KANI AMUDHAN. S.		
6	112818104009	BHARATHI RAJA. K.	A NOVEL COLOR IMAGE ENCRYPTION SCHEME BASED ON A NEW DYNAMIC COMPOUND CHAOTIC MAP AND S-BOX	Mr.S.S.SENTHIL KUMAR
	112818104021	JEEVA. V.		
	112818104044	PRAVEEN KUMAR M		
7	112818104003	ABINAYA. D.	ATTENDANCE SYSTEM BASED ON FACIAL RECOGNITION USING ENHANCED FASTER CNN ALGORITHM	Dr.S.ANBU
	112818104010	BHARGAVI. P.		
	112818104030	LAVANYA. K.		
8	112818104005	ASHNI. A. R.	PREDICTION OF PHISHING WEBSITE USING MACHINE LEARNING	Mr.T.A.VINAYAGAM
	112818104011	BHUVANESWARI. V.		
	112818104013	DINESH. D		
	112818104031	LEELAVATHI. K.		
9	112818104014	DINESH BABU. N.	SECURED HEALTH MONITORING SYSTEM USING BIG DATA ANALYTICS ENHANCED ALGORITHM	Ms.V.PAVITHRA
	112818104052	SUDHALAGUNTA LOKESH		




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Subject Name : PROJECT WORK

Subject code : CS8811

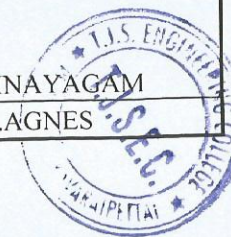
Year / Sem : IV / VIII

BATCH NO.	REG. NO.	STUDENTS NAME	PROJECT TITLE	NAME OF THE GUIDE
10	112818104015	DIVYA. K.	SENSOR RECHARGING FRAMEWORK WITH SECURED PACKET SCHEDULING FOR NAMED DATA NETWORKING BASED (WSN)	Mrs.J.AGNES
	112818104043	PRATHEEBA. T.		
	112818104054	VAISHNAVI. S.		
	112818104302	KOKILA		
11	112818104016	GOWRI SANKAR. K. B.	CRYPTO CURRENCY MARKET PRICE PREDICTION USING DATA SCIENCE TECHNIQUE	Mr.T.A.VINAYAGAM
	112818104034	MARIMUTHU P		
	112818104035	MOSES STEPHEN ARULRAJ. S.		
12	112818104017	GUDUR VARSHITH	DRIVER DROWSINESS DETECTION SYSTEM	Mr.S.S.SENTHIL KUMAR
	112818104053	UYYALA MAHESWAR REDDY		
13	112818104018	GURRAM LIKITHA	DATA-DRIVEN DECISION SUPPORT FOR OPTIMIZING CYBER FORENSIC INVESTIGATIONS	Mr.T.A.VINAYAGAM
	112818104019	JAYALAKSHMI S		
	112818104037	MYLAM SOWMYA		
14	112818104020	JEBASTI SANJANA. S.	REAL TIME VIDEO OBJECT DETECTION USING DEEP LEARNING TECHNIQUES	Ms.V.PAVITHRA
	112818104036	MUGILA. K.		
	112818104051	SUBHASHINI A		
15	112818104022	JEEVITHA. S.	DETECTION OF RESENTFUL APPLICATIONS ON ONLINE SOCIAL NETWORK	Mrs.J.AGNES
	112818104045	PRINCY AVANTHIKA R		
16	112818104023	JOSHUA. J.	REVERSE IMAGE SEARCH FOR THE FASHION INDUSTRY USING CNN	Mr.S.S.SENTHIL KUMAR
	112818104026	KATDHIRI JAYASURYA		
	112818104050	SRIKANTH V G		
17	112818104024	JOTHIKA. A.	IDENTIFYING NETWORKS VULNERABLE TO IP SPOOFING	Mr.T.A.VINAYAGAM
	112818104028	KARTHIKA. K. S.		
	112818104038	NARRA SREE DIVYA		
18	112818104901	AHAMED ASIK	SELF DRIVING CAR USING RASPBERRYPI	Mrs.J.AGNES

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PROJECT BATCH DETAILS (2018 - 2022)



Subject Name : PROJECT WORK

Subject code : E

Year / Sem : IV / VIII

BATCH NO.	REG. NO.	STUDENTS NAME	Preferred Area / Tittle	NAME OF THE INTERNAL GUIDE
1	112818105001	CHANDRU S	ELECTRIC VEHICLE WIRELESS CHARGING SYSTEM USING BI-DIRECTIONAL CONVERTER	Mr.T.KAMALKUMAR A.P-EEE
	112818105003	JAGADESH V		
	112818105011	UDAYAKUMAR S		
	112818105304	YOGESHWARAN P		
2	112818105002	DIVYAKUMAR G	ENERGY STORAGE UTILIZATION IN A STAND ALONE DC AND AC MICROGRID USING RENEWABLE ENERGY	Dr.I.ARUL DOSS ADAIKALAM ASP-EEE
	112818105007	MOHAN S		
	112818105302	SIDDHARTH V		
	112818105701	KAMESH E		
3	112818105004	KAMALESH S	SIMULATION AND IMPLEMENTATION OF SOLAR PV FED BRUSHLESS DC MOTOR USING LUO CONVERTER	Mr.A.PRAKASH AP-EEE
	112818105005	KIRUBAKARAN E		
	112818105006	KRITHICK R		
	112818105008	SIVAKUMAR D		
4	112818105009	SURUTHI V	GARBAGE MONITORING SYSTEM USING CLOUD COMPUTING	Mrs.M.SHUNMUGA SANKARI ASP-EEE
	112818105010	SWATHI V		
	112818105301	ASHOK KUMAR P		
	112818105303	THIRUMALAI B		



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PROJECT CO-ORDINATOR (HOD-EEE)

J. Sankar

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Subject Name : PROJECT WORK
Year / Sem : IV / VIII

Subject code : EC8811

S.NO	BATCH NO	REG NO	STUDENT NAME	TITLE NAME	SUPERVISOR NAME
1	1	112818106030	Shalini.B	WAR FIELD SOLDIERS BODY CONDITION MONITORINGS YSTEM	Dr.M.SATHYAPRIYA
2		112818106028	Sabeshni.S		
3		112818106004	Gaythri.M		
4	2	112818106019	oviya.e	IRIS RECOGNITION BIOMETRIC USING CONVOLUTIONAL NEURAL NETWORK AND TRANSFER LEARNING	Dr.S.VELMURUGAN
5		112818106033	subhiksha. S		
6		112818106029	saranya.k		
7		112818106304	sabitha.s		
8	3	112818106001	barath Kumar.b	INFRARED SENSOR AND FINGER PRINT SENSOR FOR SECURITY BASED ELECTRONIC VOTING MACHINE USING RASPBERRY PI	Dr.S.VELMURUGAN
9		112818106032	Siva Kumar.s		
10		112818106034	velkumar.c		
11		112818106035	Vijay.a		
12	4	112818106701	Sonali Jha. D	RECOGNIZING GAS METER VALUE USING DEEP LEARNING	Mrs.C.SHALINI
13		112818106013	Kannammai. A		
14		112818106027	Revathi. U		
15		112818106031	Sindhu. V		
16	5	112818106012	kammaleash S	PATIENT'S MONITORING SYSTEM [PAMOS]	Mrs.C.SHALINI
17		112818106008	Immanuellazer D		
18		112818106014	ganesh reddy K		
19		112818106038	Yuvaraj S		
20	6	112818106007	Ilaya Perumal V	AN ARDUINO BASED SMART SYSTEM AND ACCIDENT PREVENTION SYSTEM USING EYE BLINK SENSOR	Dr.M.SATHYAPRIYA
21		112818106010	Jaya Prakash J		
22		112818106025	Rajesh A		
23		112818106037	Vinoth Kumar K		



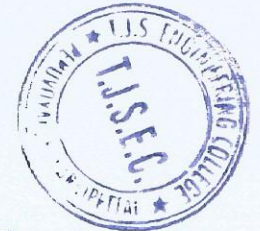
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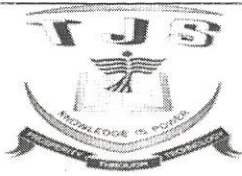
24	7	112818106005	Girish S	DETECTION OF AN INTRUDER AND PREDICTION OF HIS STATE OF MOTION BY USING SEISNIC SENSOR	Mrs.D.MYTHILY
25		112818106002	D. Sai Kiran		
26		112818106003	G. Sathish Reddy		
27		112818106021	P. Muni Teja		
28	8	112818106017	D.Naveen	AI BASED SURVEILLANCE & MONITORING SYSTEM TO CATCH PERPETRATORS	Mrs.D.MYTHILY
29		112818106006	v.gowtham		
30		112818106301	s.mohammed liaqath		
31		112818106022	v.pradeep kumar		
32	9	112818106016	P. Mathimalar	WIRED AND WIRELESS SENSOR FORENERGYEFFICIENT STREET LIGHT	Mrs.G BHAVANI
33		112818106018	R. Nivetha		
34		112818106011	M. Jeevitha		
35		112818106023	D. Prassana Lakshmi		
36	10	112818106024	Raghul Vijay.R	AUTOMATION TRAIN USING OBSTRACLE DETECTION SYSTEM	Mrs.G BHAVANI
37		112818106026	Rajesh.V		
38		112810106015	Manoj kumar.S		
39		112818106020	Naveen.P		

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Department of Mechanical Engineering

Batch No.	Reg.no	Student Name	Project Name	Project Guide
1	112818114302	Bhuvaneshwaran S	Investigation of Mechanical behavior of newly developed tamarind seed reinforced bio composite	Dr.K.Kamal Babu
	112818114305	Umesh R		
	112818114306	Vaideeshwaran M		
	112818114307	Vishnuram R		
2	112818114012	Gopinath S	Design and Analysis of an Excavator bucket	Mr.S.Sathya Moorthi
	112818114018	Kamaraj B		
	112818114020	Karthikeyan R		
	112818114026	Mohana Prasath S		
3	112818114010	Dinesh P	IOT Valve	Mr.M.Vinoth Kumar
	112818114013	Hayath Basha K		
	112818114014	Janarthan S		
	112818114023	Kumara Guru G		
4	112818114007	Bodilingalapadu Vasanth	Experimental Investigation of ballistic Impact Behavior of Eco Polymer Composite	Mr.M.Prakash
	112818114021	Katuru Bhuvan Chandu		
	112818114024	Kuppan M		
	112818114027	Mohendar D		
5	112818114002	Akash B	Gearless power transmission system	Mr.S.Sathya Moorthi
	112818114029	Nagaraj V		
	112818114032	Prabakaran S		
	112818114038	Sai Krishnan K B		



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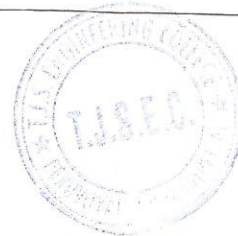


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Thiruvallur District - 601206



Department of Mechanical Engineering

6	112818114034	Raghul R	Evaluation of mode I fracture & SEM analysis of environmental friendly tamarind seed reinforced biocomposite with 3layer jute fiber	Mr.M.Prakash
	112818114036	Riyaz Khan K		
	112818114040	Sharan P		
	112818114041	Snega K		
7	112818114004	Aswin P V	Design and material Optimization of colling fins in electric vehicle motor housing	Mr.R.Sathish Kumar
	112818114025	Logesh R		
	112818114039	Sai Kumar G R		
	112818114047	Vignesh Kumar S		
8	112818114008	Chattu Gunakar	Tribological Analysis at Tamarind Filler Reinforced polymer Composite	Dr.K.Kamal Babu
	112818114009	Chittiboina Murali Krishna		
	112818114019	Kanderi Naveen		
	112818114001	Abinesh V		
9	112818114031	Pavan Kumar S	Solar Grass Cutter Machine	Mr.M.Vinoth Kumar
	112818114042	Sundharesan L		
	112818114043	Sunil Raj J		
	112818114045	Tamil Priyan C		
10	112818114005	Athiqhur Rahman M	Design and Analysis of Car Crashing Element	Mr.S.Sathya Moorthi
	112818114028	Mouli Chandru D		
	112818114501	Rajesh P		
	112818114701	Mohammed Althaf M		



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Department of Mechanical Engineering

11	112818114003	Akash S	Hydraulic Traction Beam	Mr.M.Prakash(Sr)
	112818114006	Bala Murugan S		
	112818114304	Subash S		
	112818114702	Rahul S		
12	112818114016	Jibin Jose K	Design and Analysis of Leaf spring in Maxi Truck	Mr.R.Sathish Kumar
	112818114033	Purusothaman M		
	112818114035	Rajesh P		
	112818114046	Vasanthraj P		
13	112818114037	Sadu Venkatesh	Evaluation of thermo mechanical (DMA & TGA) Analysis of Tamarind powder reinforced	Mr.M.Prakash
	112818114048	Vijayakumar P		
	112818114301	Amasa Nanda Kumar		
	112818114303	Pavan Kumar R		
14	112818114022	Krishna Bharathi H	Hybrid Differential	Mr.M.Prakash(Sr)

H. Karan Babu
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HEALTH TRACKING SYSTEM

A PROJECT REPORT

Submitted by

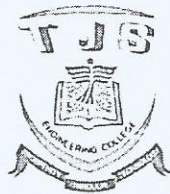
IMMANUELLAZER .D	112818106008
KAMMALEASH .S	112818106012
GANESHREDDY .K	112818106014
YUVARAJ .S	112818106038

*In partial fulfillment for the award of the
degree of*

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION ENGINEERING



T.J.S. ENGINEERING COLLEGE, PERUVOYAL, CHENNAI



ANNA UNIVERSITY: CHENNAI 600 025

JUNE, 2022

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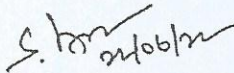
ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "HEALTH TRACKING SYSTEM" is the Bonafide work of the following students

IMMANUELLAZER .D	112818106008
KAMMALEASH .S	112818106012
GANESHREDDY .K	112818106014
YUVARAJ .S	112818106038

Who carried out the project work under my supervision.


SIGNATURE

DR.S.VELMURUGAN

HEAD OF THE DEPARTMENT

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Communication Engineering,
T.J.S. Engineering College,
Peruvoyal, Chennai

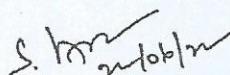

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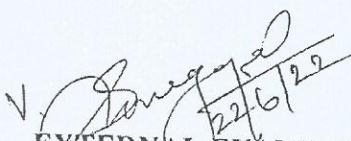
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Submitted for viva voce held on 22.06.2022 at T.J.S. Engineering College,
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INTERNAL EXAMINER


EXTERNAL EXAMINER





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ACKNOWLEDGEMENT

"Project is the product out of experience that goes a long way in shaping up a person's calibre. The experience and success one attains is not by oneself but with a group of kind hearts behind."

First and foremost, we express our sincere thanks to honourable Founder and Chairman "KALVI NERI KAVALAR" Shri. T.J.GOVINDARAJAN B.A., MLA., Managing Director & Secretary Shri. T.J.ARUMUGAM., Vice Chairman Shri. T.J.DESAMUTHU., Directors Dr.A.PALANI B.D.S., Shri. A.VIJAYA KUMAR B.E., Shri. A.KABILAN BA. B.L.. M.B.A., Shri. D.DINESH B.Com., L.L.B and Shri. G.TAMILARASAN B.Com., M.B.A for providing us with adequate infrastructure and congenial academic environment. We also record our sincere thanks to our honorable Principal Dr. J. PRAKASH, M.E, Ph.D., for his kind support to take up this project.

We express our gratitude to .Dr.S.VELMURUGAN, M.E, Ph.D Head of the Department of Electronics & Communication Engineering whose guidance and encouragement has helped us in completing this project work.

We extend our sincere thanks to our Supervisor Mrs. C.SHALINI, M.E.,(ph.D) ASSISTANT PROFESSOR and all other TEACHING FACULTIES and NON-TEACHING STAFF of Department of Electronics & Communication Engineering for giving the confidence to complete the project successfully by providing the valuable suggestions and interest at every stage of the project.

Further the acknowledgement would be incomplete if we would not mention a word thanks to our most beloved PARENTS and FRIENDS whose continuous support an encouragement all the way through the course has led us to pursue the degree and confidently complete the project.




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ABSTRACT

In these recent years, people are much more concerned about their health as diseases arising day by day are more. Hence it is very much important to monitor the health. This system presents the design and implementation of IOT based health monitoring system which incorporates temperature and pulse rate sensors, blood pressure, respiratory. The patient's body will be monitored continuously and the doctor can know about the patient's condition while sitting somewhere in front of a computer screen. Whenever the condition of the patient goes abnormal an alert will be sent to the doctor through the mobile app so that he can diagnose the problem immediately which helps to save patient's life. The main purpose of this project is to inform the doctor about the patient's health condition time to time and if any abnormality occurs, the doctor can take the best step immediately



A handwritten signature in green ink, appearing to be "S. J. Srinivasan".

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TABLE OF CONTENTS

CHAPTER NO	TITLE	PAGE NO
	ABSTRACT	I
	LIST OF TABLES	II
	LIST OF FIGURES	IV
	LIST OF ABBREVIATION	V
1	INTRODUCTION	1
1.1	GENERAL INTRODUCTION	1
1.2	AIM OF PROJECT	1
1.3	PULSEOXIMETER	2
1.4	ELECTROCARDIOGRAM (ECG)	3
1.5	EMBEDDED SYSTEM	5
1.6	APPLICATION OF EMBEDDED SYSTEM	6
1.7	INTRODUCTION TO INTERNET OF THINGS (IOT)	8
1.7.1	FEATURES OF IOT	8
2	EXISTING AND PROPOSED SYSTEM	10
2.1	EXISTING SYSTEM	10
2.1.1	BLOCK DIAGRAM OF EXISTING SYSTEM	10
2.1.2	DISADVANTAGES OF EXISTING SYSTEM	11
2.2	PROPOSED SYSTEM	11
2.2.1	BLOCK DIAGRAM OF PROPOSED SYSTEM	12
2.2.2	ADVANTAGES OF PROPOSED SYSTEM	12
3	BLOCK DIAGRAM AND DESCRIPTION	13
3.1	BLOCK DIAGRAM OF THE PROJECT	13
3.2	FUNCTIONS OF EACH BLOCK	14
4	HARDWARE IMPLEMENTATION	16
4.1	HARDWARE DISCRIPTION	16
4.2	ESP32 MICROCONTROLLER DESCRIPTION	16
4.2.1	SPECIFICATION OF ESP32	16
4.2.2	DIFFERENT WAYS TO PROGRAM ESP32	17
4.2.3	LAYOUT	17
4.2.4	PINOUT OF ESP32 BOARD	18
4.2.5	IMPORTANT ESP32 PERIPHERALS	19
4.3	MAX30100	21
4.3.1	PIN CONFIGURATION OF MAX30100	22
4.3.2	SPECIFICATION AND FEATURES OF MAX30100	23
4.3.3	WORKING OF THE MAX30100	23
4.3.4	APPLICATIONS OF MAX30100	24



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CHAPTER NO	TITLE	PAGE NO
4.4	LM35 SENSOR	25
4.4.1	LM35 TEMPERATURE SENSOR FEATURES	26
4.4.2	LM35 SENSOR PINOUT CONFIGURATION	26
4.4.3	WORKING PRINCIPLE OF LM35	27
4.4.4	LM35 TEMPERATURE SENSOR APPLICATIONS	27
4.5	AD8232 SENSOR	28
4.5.1	AD8232 PIN CONFIGURATION	28
4.5.2	PIN DESCRIPTION OF THE AD8232 ECG MODULE	30
4.5.3	FEATURES AND SPECIFICATIONS	31
4.5.4	APPLICATIONS OF AD8232 ECG SENSOR	31
4.6	RFID (RDM6300)	32
4.6.1	COMPONENTS REQUIRED FOR INTERFACING RDM6300 WITH ARDUINO	32
4.6.2	RDM6300 RFID READER MODULE	32
4.6.3	RDM6300 RFID READER MODULE PINOUT	33
4.6.4	RDM6300 RFID READER MODULE SPECIFICATION	33
4.6.5	FEATURES	34
4.7	ARDUINO NANO	34
4.7.1	SPECIFICATIONS OF ARDUINO NANO	35
4.7.2	ARDUINO NANO LAYOUT	35
4.8	LCD	36
4.8.1	FEATURES	37
5	SOFTWARE IMPLEMENTATION	38
5.1	ARDUNIO	38
5.2	INSTALLING ESP32 ADD-ON ARDUINO	39
5.3	TESTING THE INSTALLATION	42
6	BLYNK	45
6.1	INTRODUCTION TO BLYNK	45
6.2	COMPONENTS OF BLYNK	46
6.3	APPLICATIONS OF BLYNK	46
7	RESULT	49
7.1	RESULT	49
7.1.1	PROJECT SETUP	49
7.1.2	BEFORE EXECUTION	50
7.1.3	AFTER EXECUTION	51
8	CONCLUSION	52
	REFERENCE	53
	APPENDIX	54
	PUBLICATION DETAILS	67



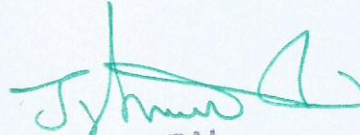
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LISTOF FIGURES

FIGURE NO	TITLE	PAGE NO
1.1	The absorbance graph of oxy Hb and the absorbance graph of deoxyHb	2
1.2	Position of placing ECG Electrodes	3
1.3	Waveform of ECG	4
1.4	Block diagram of Embedded system	6
1.5	Flow Chart of IoT	8
2.1	Block diagram of existing system	10
2.2	Block diagram of proposed System	12
3.1	Block Diagram	13
4.1	Layout of ESP32	17
4.2	Pinout of ESP32	18
4.3	MAX30100 Sensor	21
4.4	Pinout of MAX30100	22
4.5	Working of MAX30100	23
4.6	LM35 Sensor	25
4.7	Pinout of LM35 Sensor	26
4.8	AD8232 Sensor	28
4.9	Pinout of AD8232 Sensor	29
4.10	RDM6300 RFID Module	34
4.11	Arduino Nano	34
4.12	Arduino Nano layout	35
4.13	LCD (16*2)	36
6.1	Logo of Blynk	45
6.2	Components of Blynk	46
7.1	Photo capture of the project (OFF Condition)	49
7.2	Photo capture of the project (ON Condition)	49
7.3	Screenshot of the output in Blynk app before execution	50
7.4	Screenshot of the output in Blynk app after execution	51




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LIST OF ABBREVIATION

WI-FI	-	Wireless Fidelity
IOT	-	Internet of Things
ECG	-	Electrocardiogram
RFID	-	Radio Frequency Identification
LCD	-	Liquid Crystal Display
EPROM	-	Erasable Programmable Read-only Memory
PAN	-	Personal Area Network
PIC	-	Peripheral Interface Controller
IC	-	Integrated Circuit
CPU	-	Central Processing Unit
CU	-	Control Unit
PORT	-	Portable



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CHAPTER 1

INTRODUCTION

1.1 GENERAL INTRODUCTION

A Remote health monitoring system is an extension of a hospital medical system where a patient's vital body state can be monitored remotely. Traditionally the detection systems were only found in hospitals and were characterized by huge and complex circuitry which required high power consumption. Continuous advances in the semiconductor technology industry have led to sensors and microcontrollers that are smaller in size, faster in operation, low in power consumption and affordable in cost. This has further seen development in the remote monitoring of vital life signs of patients especially the elderly.

1.2 AIM OF PROJECT

The remote health monitoring system can be applied in the following scenarios: 1. A patient is known to have a medical condition with unstable regulatory body system. This is in cases where a new drug is being introduced to a patient. 2. A patient is prone to heart attacks or may have suffered one before. The vitals may be monitored to predict and alert in advance any indication of the body status. 3. Critical body organ situation 4. The situation leading to the development of a risky life-threatening condition. This is for people at an advanced age and maybe having failing health conditions. 5. Athletes during training. To know which training regimes will produce better results. In recent times, several systems have come up to address the issue of remote health monitoring.



A handwritten signature in green ink, appearing to be 'S. J. S.', written over the printed name of the Principal.

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CHAPTER 7 RESULT

7.1 RESULT

These are the outputs which are observed for our project while under working.

7.1.1 PROJECT SETUP

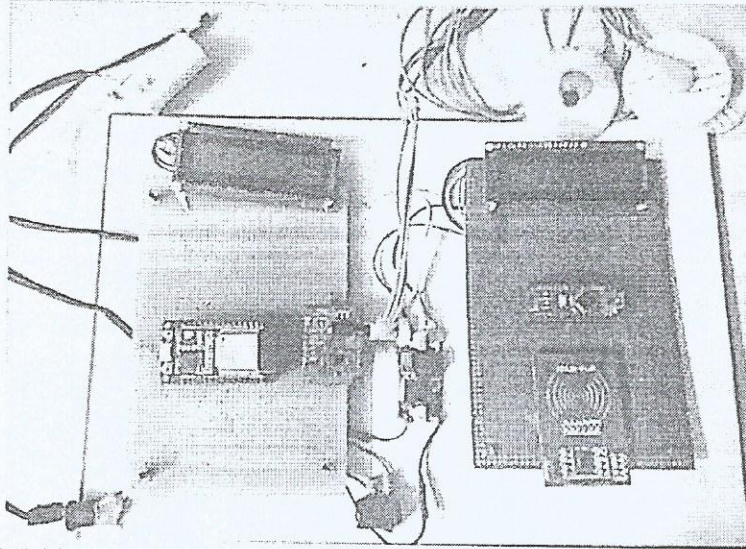


FIGURE 7.1 PHOTO CAPTURE OF THE PROJECT (OFF CONDITION)

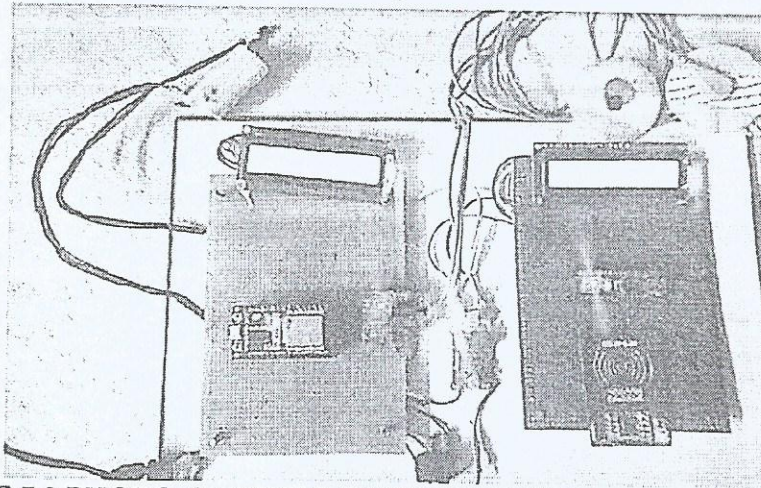


FIGURE 7.2 PHOTO CAPTURE OF THE PROJECT (ON CONDITION)




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7.1.2 BEFORE EXECUTION

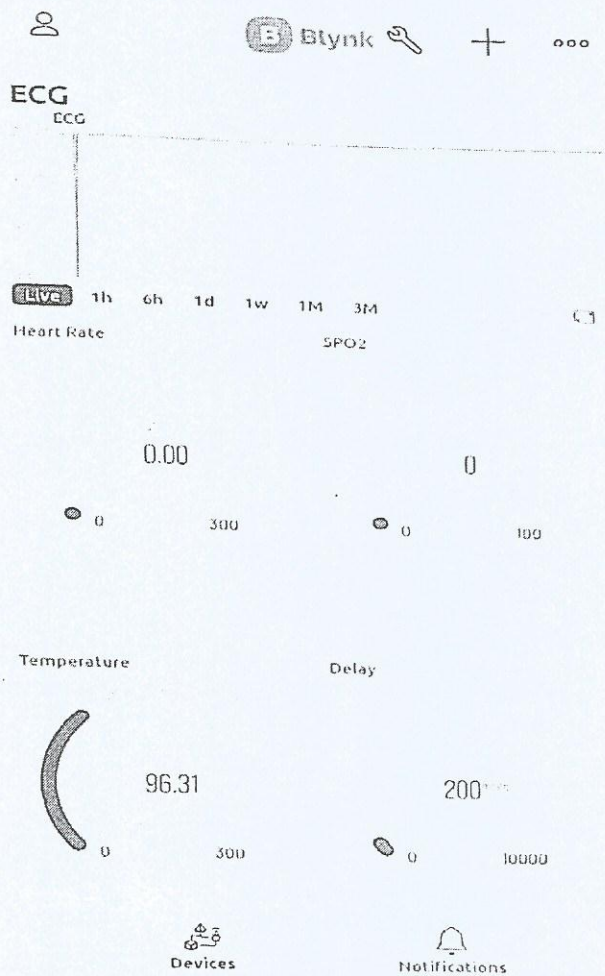


FIGURE 7.3 SCREENSHOT OF THE OUTPUT IN BLYNK APP BEFORE EXECUTION

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7.1.3 AFTER EXECUTION

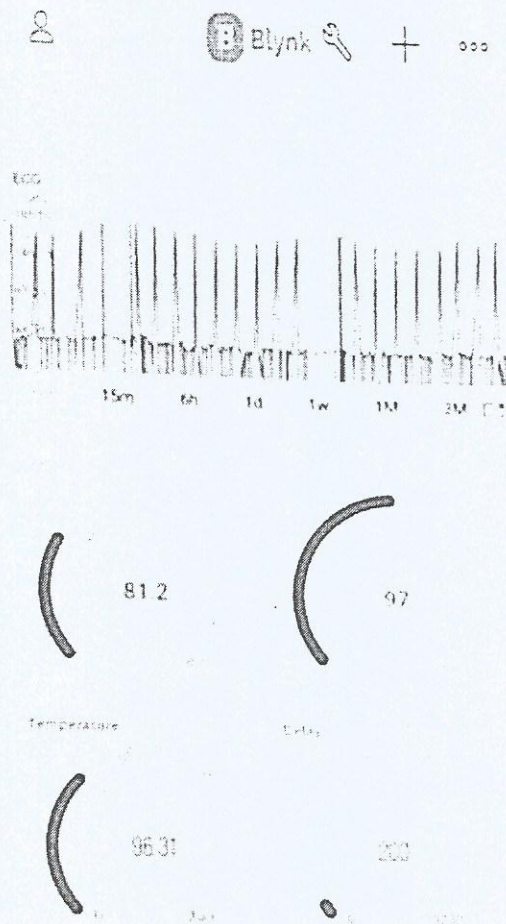


FIGURE 7.4 SCREENSHOT OF THE OUTPUT IN BLYNK APP AFTER EXECUTION

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CHAPTER 8 CONCLUSION

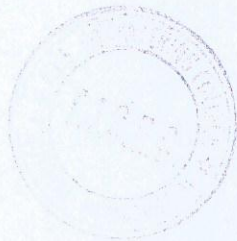
The main objective of the experiment was successfully achieved. All the individual modules like Heartbeat detection module, fall detection module etc. and remote viewing module gave out the intended results. The designed system modules can further be optimized and produced to a final single circuit. More important fact that came up during project design is that all the circuit components used in the remote health detection system are available easily. With the development in the integrated circuit industry, Micro Electro Mechanical Systems (MEMs) and microcontrollers have become affordable, have increased processing speeds, miniaturized and power efficient. This has led to increased development of embedded systems that the healthcare specialists are adopting. These embedded systems have also been adopted in the Smartphone technology. And with increased internet penetration in most developing countries through mobile phones, and with use of Internet of things (IoT) will become adopted at a faster rate. The Remote Health Care system utilizes these concepts to come up with a system for better quality of life for people in society. From an engineering perspective, the project has seen concepts acquired through the computer science and embedded study period being practically applied. The Electric circuit analysis knowledge was used during design and fabrication of the individual modules. Electromagnetic fields analysis used in the wireless transmission between microcontrollers and Software programming used during programming of the microcontrollers to come up with a final finished circuit system.



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Format for Project Work Evaluation (B.E. / B.Tech.)

College Name : T.J.S. Engineering college

Department : EEE

Paper Name : Project works

Paper Code : EE 8 811

STREAM : EV.

Semester : VIII

University Roll No.	Name of the Student	Title of the Project	Semester Examination								
			Project Report (10)	Development of Prototype/ Model (20)	Power point presentation (15)	Viva-Voce (15)	Usage of Modern Tool/ Technology (10)	Innovative -ness (10)	Individual contribution (10)	Group activity (10)	Total (100)
112818 105001	CHANDRU S	Electric vehicle	10	20	15	5	10	10	10	10	95
112818 105003	JAYADESH V	wireless	10	20	15	6	10	10	10	10	96
112818 105011	UDAYA KUMAR G	Charging System	10	20	15	4	10	10	10	10	94
112818 105304	MOGESH WARAN P.	using BI-direction converter	10	20	15	4	10	10	10	10	94



(Signature of the Project Supervisor(s))

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(Signature of the HoD)

Guidelines for execution of mandatory Project Work

1. Student will carry out project work on any two of the relevant papers in each semester of 1st year and any four of the relevant papers in each semester of 2nd and 3rd year.
2. Number of students under a given project would be decided by the Head of Dept. However, maximum number of students under a given project should not cross five.
3. Within one month of the commencement of the new semester, each student will identify and confirm the selection of subjects under which project works will be carried out and accordingly, continuous project work evaluation will be carried out by the respective supervisor
4. Credit point allocation on each project is 0.5
5. A 'Digital Repository' would be created about project work/presentation of a given student and same has to be maintained for all 4 years, so that the student can realize his/her gradual development with semesters.
6. In a semester, there would be at least two interim evaluation about the progress of project work (should be carried out along with Unit Tests I and II) followed by final assessment in the end semester examination.

Assessment Guideline of Power Point Presentation (15):

- i) Body language (5 marks)
- ii) Communication Skills (5 marks)
- iii) Content of the power point presentation (5 marks)



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