



JCT COLLEGE OF ENGINEERING AND TECHNOLOGY
PICHANUR, COIMBATORE-641105



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



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ACADEMIC YEAR 2020-2021
CONSOLIDATED MAIN PROJECT LIST

S.no	Name of the department	No of batches
1	Automobile Engineering	9
2	Civil Engineering	6
3	Computer Science Engineering	15
4	Electronics and Communication Engineering	8
5	Electrical and Electronics Engineering	7
6	Mechanical Engineering	28
7	Petrochemical Engineering	39
8	Food Technology	18
9	Petroleum Engineering	18




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2020-2021

MAIN PROJECT LIST

S.No.	REGISTER NUMBER	NAME OF THE STUDENT	BATCH NO	TITLE	GUIDE
1	720917106038	VINAYACHANDRAN P	I	DIABETIC RETINOPATHY DETECTION USING MEDICAL IMAGE PROCESSING	Ms.R.Abinaya
2	720917106004	AJMAL SALEEM M.A			
3	720917106031	SUMATHI K			
4	720917106030	SOWNTHARYA M			
5	720917106005	ALBIN CHACKO	II	AUTOMATED SHOPPING TROLLEY WITH E-PAYMENT SYSTEM	Mr.S.Renswick
6	720917106301	MOHAMMED RAEES P P			
7	720917106010	GAYATHRI.R			
8	720917106034	VASANTH.D			
9	720917106035	VENNILA.C	III	ATM SECURITY SYSTEM USING FACE RECOGNITION	Mr.S.Renswick
10	720917106009	ELANKAVI.K			
11	720917106023	PANDIYARAJAN.B			
12	720917106021	NANDHINI S	IV	HAND GESTURE RECOGNITION AND VOICE CONVERSION SYSTEM FOR SPEECH IMPAIRED	Mr.K.Babu
13	720917106026	SAGAYA MONISHA J			
14	720917106007	ARUN.P			
15	720917106029	SNEHA.R			
16	720917106015	KARNIYA.R	V	IOT BASED MANHOLE MONITORING SYSTEM	Mrs.Thahseen thahir
17	720917106012	HARIPRASATH R			
18	720917106033	SURUTHI.S			



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19	720917106022	NATHISH.C			
20	720917106039	VISHNU PRASAD C	VI	ADAPTABLE ROBOTIC ARM FOR COVID 19 PATIENTS	Mr.M.Chandrasekaran
21	720917106014	KAMALEESWARLS			
22	720917106006	AMAL.V.C.			
23	720917106016	MAHALAKSHMI.P			
24	720917106001	ABHIJIT.O.P	VII	ASSESSING OF SIGN TO SPEECH USING RASPBERRY PI AND IOT	M.chandrasekaran
25	720917106028	SIBIN.K.S			
26	720917106003	AGALYA.R			
27	720917106017	MASILAMANI M			
28	720917106037	VIJAYALAKSHMI.V	VIII	ACCIDENT ALERT GENERATION SYSTEM USING LORA AND IOT	Mrs.A.Julin Bestina
29	720917106013	ILAIA BARATHI.A			
30	720917106008	BHARATH M S			
31	720917106019	MUNIYARAJ.K			



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HAND GESTURE RECOGNITION AND VOICE CONVERSION SYSTEM FOR SPEECH IMPAIRED

A PROJECT REPORT

Submitted by

ARUN P - 720917106007
NANDHINI S - 720917106021
SAGAYA MONISHA J - 720917106026
SNEHA R - 720917106029

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

In

ELECTRONICS AND COMMUNICATION ENGINEERING

JCT COLLEGE OF ENGINEERING AND TECHNOLOGY

ANNA UNIVERSITY: CHENNAI 600 025

APRIL-2021

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**HAND GESTURE RECOGNITION AND VOICE CONVERSION SYSTEM FOR SPEECH IMPAIRED**” is the bonafide work of “**ARUN P, NANDHINI S, SAGAYA MONISHA J, SNEHA R,**” who carried out the project work under my supervision.

SIGNATURE

Mrs. VEDHA VINODHA

HEAD OF THE DEPARTMENT

Department of
Electronics And
Communication
Engineering,
JCT College of Engineering
&Technology, Pichanur,
Coimbatore-641105

SIGNATURE

MR.K.BABU

SUPERVISOR

Department of Electronics
and Communication
Engineering, JCT College of
Engineering & Technology,
Pichanur, Coimbatore-
641105

Submitted for the project viva voice held on

Internal Examiner

External Examiner

ACKNOWLEDGEMENT

First and Foremost we place this project work on the feet Of GOD ALMIGHTY who is the power of strength in each step of progress towards the successful completion of project work.

We express our heartfelt thanks to our most honourable chairman **Shri.S.A.Subramanian**, JCT College of Engineering and Technology, Coimbatore, for his excellent encouragement in the completion of this innovative project. We express our heartfelt thanks to our most honourable secretary **Shri.R.Durga Shankar**, JCT College of Engineering and Technology, Coimbatore, for his encouragement towards the completion of this project.

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Above all we thank our family members and our friends who have been our tremendous physical and moral support.

VISION AND MISSION OF DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VISION

The Electronics and Communication Engineering department aims to empower budding engineers to meet current and imminent challenges in creative research and Employment with technological excellence.

MISSION

To provide all necessary inputs to excel in domain knowledge both in theory and practical.

To provide creativity developmental activities, integration, and collaborative Research with industry and academia.

PROGRAMME OUTCOMES (POs)

Engineering Graduates will be able to:

PO1: Engineering Knowledge: Apply the knowledge of mathematics, Science, engineering Conduct investigations of complex problems: Use research based knowledge and research methods including design of experiments, analysis and Interpretation of data, and synthesis of the information to provide valid conclusions.

PO2: Problem Analysis: Identify, formulate, review research literature, and Analyse complex engineering problems reaching sustained conclusions using the first Principle of mathematics, natural sciences and engineering sciences.

PO3: Design /Development Of Solutions: Design solutions for complex Engineering problems and design system components or processes that meet the

Specified needs with appropriate consideration for the public health and safety and the cultural societal and environmental considerations.

PO5: Modern Tool Usage: Create, select and apply appropriate techniques, Resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of limitations.

PO6: The Engineer And Society: Apply reasoning informed by the Contextual knowledge to assess societal, health, safety, legal and cultural issues and Consequent responsibilities relevant to professional engineering practices.

PO7: Environment And Sustainability: Understand the impact of the Professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and needed for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and Responsibilities and norms of the engineering practice.

PO9: Individual And Teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

P10: Communication: Communicate effectively on complex engineering Activities with the engineering community and with society at large, such as, being Able to comprehend and write effective reports and design documentation, make Effective presentations, and give and receive clear instructions.

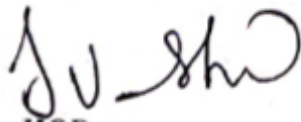
P11: Project Management And Finance: Demonstrate knowledge and Understanding of the engineering and management principles and apply these to one's Own work, as a member and leader in a team, to manage projects and in Multidisciplinary environments.

P12: Life-Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadcast context of Technological change.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1: Capable of successfully qualifying in national level competitive for higher studies and employment.

PSO2: The ability to comprehend the basic concepts of electronics and apply them in the day to day life to design and execute complete engineering systems in signal Processing, communications and computer networks, etc.



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