



2. PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120)

2.2.3. Quality of student projects (25)

The students carry out their project work in the Final year. Projects provides opportunities for students to collaborate and learn that enhances their ability in teamwork, effective communication and kindles skills such as problem solving and time management. In these projects, the students are encouraged to think not only about the technological issues in engineering developments, but also the social, ethical, and environmental consequences of their ideas. This approach will equip them for a career with impact in influencing and improving the world we live in and will groom them into socially responsible engineers.

Project Guidelines

- Project work may be allotted to a single student or to a group of students not exceeding 4 per group
- There shall be three reviews during the semester by the review committee
- The student shall make presentation on the progress made by him / her before the committee

Table 2.2.3 (a) : Project Review Plan

Timeline	Task	Particulars
SEMESTER SEVEN		
1st week	Call for project batch	Students are invited to prepare their batch and get it registered with the project coordinator of the department. The student submitting project titles are pre-evaluated by a team of experts.
4th week	Guide allotment	Guide will be allotted based on areas of interest.
8th week	First Review	Students are instructed to submit requirement specification and give a PowerPoint presentation for the project. (Evaluation phase I by a team of faculty)
12th week	Second Review	Students are instructed to submit Design document of the project and give a PowerPoint presentation for the project. (Evaluation phase I by a team of faculty)
14th week	Phase I Project internal marks	The submitted phase I project work are reviewed by a committee consisting of Project coordinator, Head of the department. The marks for the project work are processed according to the university regulations.
SEMESTER EIGHT		
1st week	First Review	Students are instructed to submit requirement specification and give a PowerPoint presentation for the project in continuous of phase I project. (Evaluation phase II by a team of faculty)



4th week	Second Review	Students are instructed to submit Design document of the project and give a PowerPoint presentation for the project. (Evaluation phase II by a team of faculty)
8th week	Third Review	Students are instructed to submit complete project Demo and give a PowerPoint presentation for the project. (Evaluation phase II by a team of faculty)
12th week	Final Demonstration	Students are instructed to submit complete project report with university compliance and give a PowerPoint presentation for the project. (Evaluation phase II by a team of faculty)
14th week	Project internal marks announcement	The marks for the project work is announced and processed according to the university regulations.

2.2.3.1. Identification of projects and allocation methodology to Faculty Members

The Department follows standard procedures to ensure that students do a quality project.

Project coordinators:

- The Head of Department identifies faculty members and assigns them as Project Coordinators at the beginning of the semester.
- The Project Coordinators motivate the students to select their projects based on the latest trends in technologies and needs of the industry.

Project Group:

- Students can do individual projects or form groups consisting minimum two to maximum of four members.
- If the students are not able to form the group, then the project coordinators will help them to form the group.
- The students are instructed to submit their team members, area of interest and tentative topics to the Project Coordinators at the beginning of the semester.

Identification of Projects

The students select a project in line with their area of interest. Students are encouraged to do project work on real world applications, product development, research-based projects, projects from Smart India Hackathon to provide innovative solutions to India daunting problems and interdisciplinary areas as shown in Figure 2.2.3 (a). The core competencies include but not limited to the areas illustrated in the Figure 2.2.3(b).

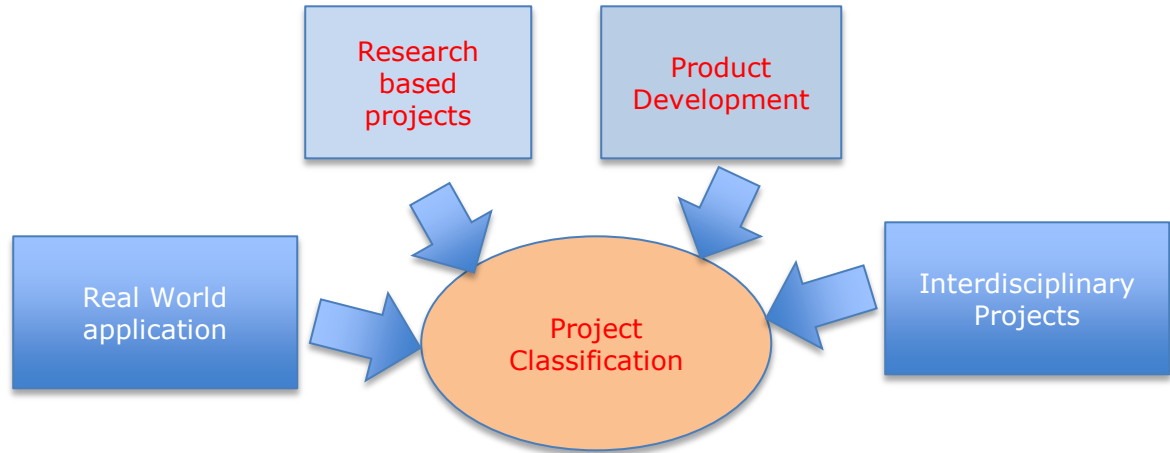
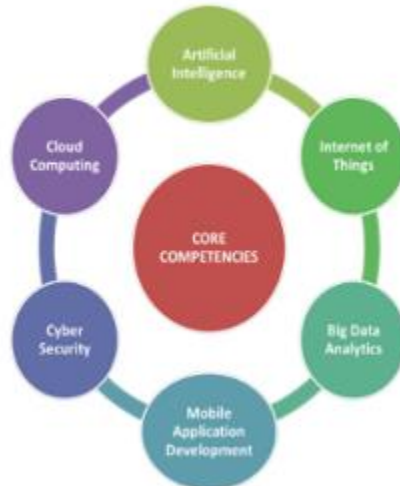


Fig. 2.2.3.1(a) Project Classification



.Fig. 2.2.3.1 (b) Core Competencies

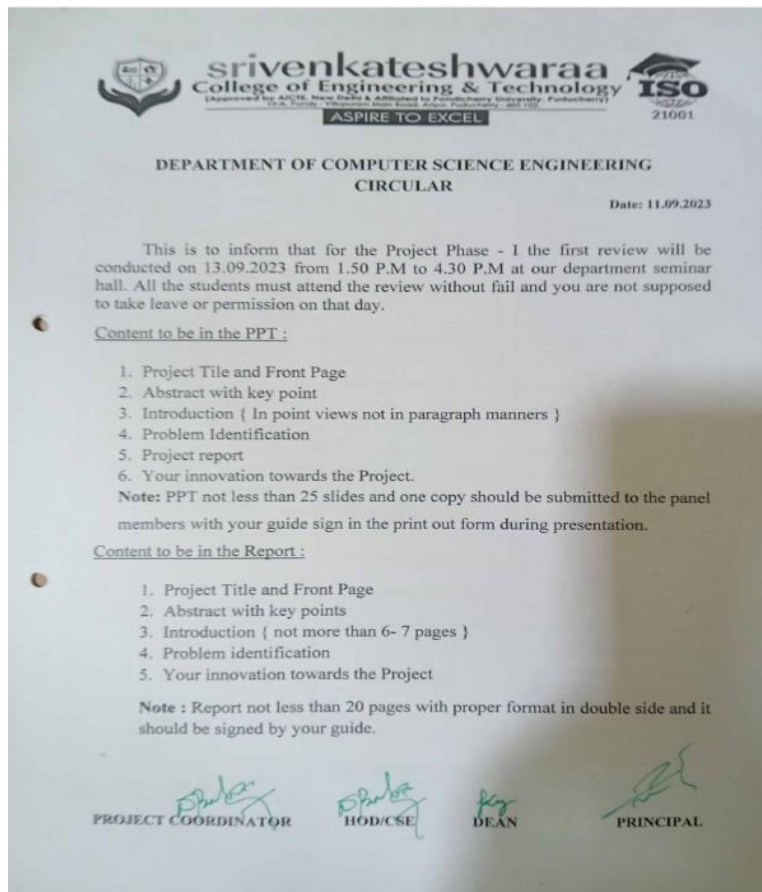
Guide Allocation Process

- As per the university norms maximum 2 teams allocated to each faculty. The Project Coordinators motivate the students to select their projects based on the latest trends in technologies and needs of the industry.
- Allocation is based on their faculties domain specialization and student willingness to work with concern faculty
- Guide can allocated based on the extension activities carried out by students



Types and relevance of the projects and their contribution towards attainment of POs and PSOs

- Current academic projects are mapped to POs and PSOs.
- Each project is evaluated with internal marks and are graded according to their project quality and with their contribution towards attainment of PO's.



Circular – Project Review



Table 2.2.3 (b) : Faculty with Research Domain 2023-24

Sl. No	Faculty Name	Research Area
1.	DR. N. BALAJI	Web Services,
2.	DR. ALLEN JOSEPH	Data Mining, AI&ML
3.	Mrs. K. ANDAL	Deep Learning, Image Processing
4.	MS. S.VINITHA	Machine Learning, IOT
5.	MS.S.PAVITHRA	Machine Learning, Deep Learning
6.	Mrs. L.SATHIYA	Cloud Computing
7.	Mrs..DHARANI	Artificial Intelligence, Machine Learning
8.	Mrs..SARANYA	Blockchain Technology

Table 2.2.3 (c) : Project Tile with PO-PSO (2023-2024)

S.N O	STUDENT NAME	AREA OF PROJECT	NAME OF THE SUPERVISOR	TITLE OF THE PROJECT	PO-PSO
1	AJAY.S SHIYAM.M SIVAPRAKASAM.M THIRUVARASAN.M ARUL JENIFER.A	ERP	DR. N. BALAJI	EDU_CONNECT	PO1,PO2,PO5,PO12 ,PSO1,PSO2
2	PRATHAP.V BARATH.R HARI KRISHNAN.B THAMIZHARASAN.D	ERP	DR. N. BALAJI	VACCINATION	PO1,PO2,PO5,PO12 ,PSO1,PSO2
3	PARITOSH BISWAS M.MANISHA SHARON M THANKACHEN SINDUJA. M	ERP	DR. N. BALAJI	RESULT ANALYSIS AND REPORTING SYSTEM	PO1,PO2,PO5,PO12 ,PSO1,PSO2
4	M.SATISH P.MANOJ KUMAR	ERP	DR. N. BALAJI	STOCK MANAGEMENT	PO1,PO2,PO5,PO12 ,PSO1,PSO2



	HRITIKA ROY SNEHA LAKRA				
5	APSAR ALI ABISHEK.K PREETHISHA.M	MOBILE APPLICATION	DR. ALLEN JOSEPH	DETECTION OF BUS STOP USING APP	PO1,PO2,PSO1,PSO2
6	KIRTHIVERSHA DEVSRI.S SOWMIYA.D ARUNTHATHI.S SANTHIYA.S	DEEP LEARNING	MRS. K. ANDAL	SIGN LANGUAGE RECOGNITION	PO1,PO2,PO5,PO7, PSO1,PSO2
7	ABIMANU. M YUVARAJ.K HARI PRASATH .S JAYABALAJI.L	DEEP LEARNING	MRS. K. ANDAL	VISITORS APP	PO1,PO2,PO5,PO7, PO12,PSO1,PSO2
8	PRITHIPA.A HEMALATHA.M PRIYADHARSHINI.M KEERTHIKA.A ARULSELVI.P	MOBILE APPLICATION	MS. S.VINITHA	ACCIDENT PREVENTION SYSTEM USING IOT & TRIGGERED ALARM	PO1,PO2,PO5,PO7, PSO1,PSO2
9	EZHILARASAN.P GOWTHAM .S JAGAN.S SAKTHIVEL.A	MACHINE LEARNING	MS.S.VINITHA	PLACEMENT	PO1,PO2,PO5,PO7, PSO1,PSO2
10	VISHNUPRIYA.K NITHYASRI.V RAMYA.M SARASWATHIDEVI.S	MACHINE LEARNING	MS.S.PAVITHRA	TRAFFIC SIGN OBJECT DETECTION	PO1,PO2,PO5,PO7, PO12,PSO1,PSO2
11	DAVIDRAJ DOMINIQUE.V MURALI KRISHNAN. G SARATHRAM .K PRAVEENKUMAR.V	BIG DATA	MRS.L.SATHIYA	PLACEMENT	PO1,PO2,PO5,PO7, PSO1,PSO2



12	RAMANA.S VIGNESH.M SIVARAJ.N SOMAYA DEEPAK RAJU.M	ARTIFICIAL INTELLIGENCE	MRS.DHARANI	UPI- PAYMENT FRAUD DETECTION	PO1,PO2,PO5,PO7, PO12,PSO1,PSO2
13	GOKILASRI.G DHIVYA SRI NISHANTHI SOUNDARYA .V	BLOCKCHAIN TECHNOLOGY	MRS.SARANYA	DEFENDERS OF LEGITIMACY: ACKNOWLEDGING EXCELLENCE IN CERTIFICATE AUTHENTICATION	PO1,PO2,PO5,PO7, PO12,PSO1,PSO2

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DEPARTMENT OF COMPUTER SCIENCE, ENGINEERING
 FINAL YEAR PROJECT PHASE - I (2020-2024)
 FIRST REVIEW ATTENDANCE

S.NO	STUDENTS NAME	GUIDE NAME	SIGNATURE
1	AJAY S	Dr.N.BALAJI	<i>[Signature]</i>
	SHIYAM.M		<i>[Signature]</i>
	SIVAPRAKASAM.M		<i>[Signature]</i>
	THIRUVARASAN.M		<i>[Signature]</i>
	ARUL JENIFER.A		<i>[Signature]</i>
2	PRATHAP.V	Dr.N.BALAJI	<i>[Signature]</i>
	BARATH.E		<i>[Signature]</i>
	HARI KRISHNAN.B		<i>[Signature]</i>
	THAMIZHARASAN.D		<i>[Signature]</i>
	PARITOSH BISWAS		<i>[Signature]</i>
3	M.MANISHA	Mr. SURESH KANNAN	<i>[Signature]</i>
	SHARON M THANKACHEN		<i>[Signature]</i>
	SINDUGA. M		<i>[Signature]</i>
4	M.SATISH	Mr. SURESH KANNAN	<i>[Signature]</i>
	P.MANOJ KUMAR		<i>[Signature]</i>
	HRITIKA ROY		<i>[Signature]</i>
	SINEHA LAKRA		<i>[Signature]</i>
5	APRAR ALI	Dr.ALLEN JOSEPH	<i>[Signature]</i>
	ABISHKEK.K		<i>[Signature]</i>
	PREETHISHA.M		<i>[Signature]</i>
6	KIRTHIVERSHA	Mrs.K.ANDAL	<i>[Signature]</i>
	DEVSHI.S		<i>[Signature]</i>
	SOWMIYA.D		<i>[Signature]</i>
	ARUNTHATHI.S		<i>[Signature]</i>
7	SANTHIYA.S	Mrs.NAGAMANY ABIRAMI	<i>[Signature]</i>
	ABIMANU. M		<i>[Signature]</i>
	YUVARAJ.K		<i>[Signature]</i>
	HARI PRASATH .S		<i>[Signature]</i>



	JAYARAJ.L		
	PRITHIPA.A		
8	HEMALATHA.M	Ms.S.VINITHA	AB
	PRIYADHARSHINI.M		AB
	KREETHIKA.A		AB
	ARULSELVI.P		AB
9	ESHILARASAN.P	Ms.DHANASEGARAN	AB
	GOWTHAM.S		AB
	JAGAN.S		AB
	SAKTHIVEL.A		AB
10	VISHNUPRIYA.K	Ms.S.PAVITHRA	AB
	NITHYASHRI.V		AB
	RAMYA.M		AB
	SARASWATHIDEVLS		AB
11	DAVIDRAJ DOMINIQUE.V	Mrs.L.SATHYA	AB
	MURALI KRISHNAN. G		AB
	SARATHRAM. K		AB
	PRAVEENKUMAR.V		AB
12	RAMANA.S	Mrs.DHARANI	AB
	VIGNESH.M		AB
	SIVARAJ.N		AB
	SOMAYA DEEPAK RAJU.M		AB
13	GOKILASHI.G	Mrs.SARANYA	AB
	DHIVYA.SHI		AB
	NISHANTHI		AB
	SOUNDARYA.V		AB

PROJECT CO-ORDINATOR

HOD

2.2.3.2. Process for Monitoring and Evaluation

Project Review Committee is formed by the Head of Department at the beginning of the semester. Periodic monitoring and evaluation of the project works is done in three phases: first review, second review and third review by this committee.

Continuous Monitoring:

- The project guide / project coordinators/review committee members will give suggestions to do project.
- Based on inputs (suggestions from guide), students have to start their project work.
- All the students must report to their guides on regular basis and maintain a project note regarding the progress of their project work and get it approved by the respective supervisor.
- The project supervisor will evaluate the report submitted by the students and help them to proceed with project work.
- Project supervisor will assess each student in team and make them work in right way.
- Students should give a presentation to the Project Review Committee at the end of every month as per the academic schedule. The committee gives suggestions at the end of the presentation to improve the quality of the work and evaluates the projects based on the project assessment criteria and rubrics.
- Three project internal reviews are conducted for each Phase. After the three reviews, instructions are



given to write the Project Report as per the guidelines prescribed by the Pondicherry University.

- During Phase-I, the students are expected to finalize the field, title of the project, Problem definition and Proposed solution of the work in review I..
- In Review II, the students are expected to complete the 30% project work and 50% at the Review-III.
- The students are expected to complete the 50% of the project work in Phase-I and expected to complete the entire project during the 3rd review of Phase-II.

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
FINAL YEAR PROJECT PHASE - I (2020-2024)
STUDENT EVALUATION REPORT FOR THE FIRST REVIEW HELD ON 13.09.2023 A.N

S.NO	STUDENTS NAME	GUIDE NAME	EVALUATION					
			PPT (10)	PRESENTATION (10)	RESULT AND CONCLUSION (10)	QUERIES (10)	REPORT (10)	OUT OF 50 MARKS
1	AJAY.S	Dr.N.BALAJI	10	10	10	10	9	49
	SHIYAM.M		9	10	10	10	10	49
	SIVAPRAKASAM.M		10	10	10	10	10	50
	THIRUVARASAN.M		10	10	10	10	10	50
2	ARUL JENIFERA	Dr.N.BALAJI	10	10	10	10	10	50
	PRATHAP.V		9	9	9	9	9	45
	BARATH.R		9	9	9	9	9	45
	HARI KRISHNAN.B		9	9	9	9	9	45
3	THAMIZHARASAN.D	Mr. SURESH KANNAN	9	9	9	9	9	45
	PARITOSH BISWAS		9	9	9	9	9	45
	M.MANISHA		9	9	9	9	9	45
	SHARON M		10	10	10	10	10	50

4	THANKACHEN	Mr. SURESH KANNAN	10	10	10	10	10	50
	SINDUJA.M		10	10	10	10	10	50
	M.SATISH		10	10	10	10	10	50
	P.MANOJ KUMAR		10	10	10	10	10	50
5	HEETIKA BOY	Dr.ALLEN JOSEPH	10	10	10	10	10	50
	SNEHA LAKRA		10	10	10	10	10	50
	APSAAR ALI		10	10	10	10	10	50
	ABISHEK.K		10	10	10	10	10	50
6	PREETHISHA.M	Mrs.KANDAL	10	10	10	10	10	50
	KIRITHIVISHA		10	10	10	10	10	50
	DEVSRI.S		10	10	10	10	10	50
	SOWMIYA.D		10	10	10	10	10	50
7	ARUNTHATHI.S	Mrs.NAGAMANY ABRAMI	10	10	10	10	10	50
	SANTHYA.S		10	10	10	10	10	50
	ABIMANU.M		10	10	10	10	10	50
	YUVARAJ.K		10	10	10	10	10	50
8	HARI PRASATH.S	Ms.S.VINITHA	10	10	10	10	10	50
	JAYARAJ.LL		10	10	10	10	10	50
	PRITHIPA.A		10	10	10	10	10	50
	HEMALATHA.M		10	10	10	10	10	50



9	EEHILARASAN P	Mr. DHANASEKARAN	8	8	9	9	9	43
	DOWTHAM S		7	9	9	9	9	45
	JAGAN S		8	9	9	9	9	45
	SAKTHIVELA		9	10	9	9	9	41
10	VISHNUPRIYA K	Ms. S. PAVITHRA	9	7	9	9	9	45
	NITHYASHI V		9	8	8	9	7	42
	RAMYA M		10	10	10	10	9	48
	SARASWATHIDEVLS		10	10	9	9	10	42
11	DAVIDRAJ DOMINIQUE V	Mrs. L. SATHYA	9	10	10	10	9	48
	MURALI KRISHNAN. G		10	7	9	9	9	46
	SARATHRAM K		9	8	9	10	10	45
	PRAVEENKUMAR V		9	8	9	10	9	44
12	RAMANA S	Mrs. DHARANI	9	8	9	9	9	44
	VIGNESH M		10	9	8	10	10	43
	SIVARAJ N		10	8	7	10	9	42
	SOMAYA DEEPAK RAJUM		10	10	8	8	8	41
	GOKILASHI G		10	9	10	10	9	40
13	DHIVYA SRI	Mrs. SARANYA	10	8	9	9	9	42
	NISHANTHI		10	10	9	9	9	44
	SOUNDARYA V		9	9	9	9	9	43

PROJECT CO-ORDINATOR

HOD

2.2.3.3. Project Assessment Criteria

- Project students should maintain project note
- Guide regularly check the project note, discuss the project work and write remarks on the project note
- Project students get signature from the concern coordinator
- Guide can have regular interaction with project members
- Monthly review meeting are conducted to analyze the progress of project
- Semester end industrial and academic experts are called to review projects

Step 1: Conducting the 0th review and confirm the project titles to the students to proceed further

Step 2: Progress of the student in the project are regularly verified by the project coordinator in the allotted project hours

- Student have to submit the weekly report by consulting with the guide, which will be further verified by project coordinator and HOD
- In case of industrial project student have to submit the weekly report by consulting he industrial guide, which will be verified by internal guide, project coordinator and HOD

Step 3: Three internal project reviews will be conducted in project phase –I & Phase-II by the HOD, project coordinator and all the faculty of the department

Step 4: Evaluation of the project at the final stage will be done by external examiner in Phase-II.



Rubrics for Project Review (Out of 50 Marks)

PHASE I (Out of 200 marks)

Criteria	Weightage (Mark:	Description
Zeroth Review (30 Marks)		Focus: Problem Identification & Initial Study
Presentation	10	Clarity in explaining the problem statement, objectives, and literature survey.
Report	10	Documentation quality, including problem definition and background research.
Queries	5	Ability to address faculty/mentor queries about feasibility and relevance.
Result & Conclusion	5	Justification of the problem statement and expected outcomes.
First Review (50 Marks)		Focus: System Design & Approach
Presentation	15	Explanation of system design, methodology, and technology choices.
Report	15	Detailed requirement analysis, design diagrams, and progress documentation.
Queries	10	Clarity in answering technical questions related to design and feasibility.
Result & Conclusion	10	Justification of design decisions and expected functionality.
Second Review (60 Marks)		Focus: Development & Testing Progress
Presentation	20	Demonstration of project development, implementation status, and testing.
Report	15	Submission of detailed progress reports, coding standards, and test cases.
Queries	10	Ability to answer queries related to implementation, challenges, and improvements.
Result & Conclusion	15	Partial results, performance



		evaluation, and next steps for completion.
Model Review (60 Marks)		Focus: Final Demonstration & Evaluation
Presentation	20	Final demonstration of the working model with clear explanation.
Report	15	Comprehensive project documentation, including results and findings.
Queries	10	Effectiveness in handling queries on functionality, challenges, and future scope.
Result & Conclusion	15	Overall project outcomes, practical implementation, and conclusion.

**Rubrics for Project Review
PHASE II (Out of 600 marks)**

Criteria	Weightage (Marks)	Description
Zeroth Review (100 Marks)		
Presentation	30	Clear explanation of refined problem statement, objectives, and methodology.
Report	30	Well-structured documentation including problem definition, feasibility, and literature survey.
Queries	20	Ability to justify project goals, feasibility, and approach.
Result & Conclusion	20	Initial expected outcomes and justification of project feasibility.
First Review (150 Marks)		Focus: System Architecture & Initial Development
Presentation	50	Explanation of system architecture, methodology, and progress in implementation.
Report	40	Submission of detailed system design, requirement analysis, and progress documentation.
Queries	30	Ability to answer technical queries on design, approach, and feasibility.
Result & Conclusion	30	Justification of design choices, early-stage implementation results, and further steps.
Second Review (200 Marks)		Focus: Development, Testing & Performance



Presentation	70	Demonstration of the developed system, testing outcomes, and performance evaluation.
Report	50	Comprehensive progress report including coding standards, debugging, and test cases.
Queries	40	Ability to handle technical queries related to implementation, performance, and improvements.
Result & Conclusion	40	Analysis of partial outcomes, system performance, and next-phase goals.
Model Review (150 Marks)		Focus: Final Evaluation & Practical Application
Presentation	50	Final demonstration of the working project with real-world application insights.
Report	40	Final demonstration of the working project with real-world application insights.
Queries	30	Effectiveness in handling queries on functionality, challenges, and future scope.
Result & Conclusion	30	Final project outcomes, validation of results, and conclusion.



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Ariyur, Puducherry-605 102.



**DETECTING SPAM IN E-MAIL
PROJECT REPORT PHASE-II**



PONDICHERY UNIVERSITY

Submitted to in fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

By

DHIVYA E.L

(Reg. 19TD1403)

ABIRAMY.K

(Reg. 19TD1401)

KEERTHANA.C

(Reg. 19TD1406)

OVIYA.V

(Reg.19TC0906)



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
SRI VENKATESHWARAA COLLEGE OF ENGINEERING AND
TECHNOLOGY**

PUDUCHERRY-605102

JUNE 2023



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SRI VENKATESHWARAAA COLLEGE OF ENGINEERING AND TECHNOLOGY


(AFFILIATED TO PONDICHERRY UNIVERSITY)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BONA FIDE CERTIFICATE

This is to certify that the project work entitled “**DETECTING SPAM IN E-MAIL**” is a bonafide work done by **E.L.DHIVYA (REG:19TD1403)**, **ABIRAMY.K (REG:19TD1401)**, **KEERTHANA.C (REG:19TD1406)**, **OVIYA.V (REG:19TC0906)**, in partial fulfilment of the requirement for the award of B.Tech degree in **COMPUTER SCIENCE AND ENGINEERING** by Pondicherry University during the academic year (2022-2023).


PROJECT GUIDE
Dr.N.Balaji, D.C.T., B.Tech., M.E., Ph.D.,
Professor and Head
Department of Computer Science and
Engineering


HEAD OF THE DEPARTMENT
Dr.N.Balaji,D.C.T.,B.tech.,M.E.,Ph.D.,
Professor and Head
Department of Computer Science and
Engineering

Submitted to project and Viva Examination held on 28/6/2023


INTERNAL EXAMINER


EXTERNAL EXAMINER



ACKNOWLEDGEMENT

We hereby give a valedictory thanks for this opportunity of considering our ideas and allowing us to take our innovation to the next level.

We sincerely thank our beloved principal **Dr.S. Pradeep Devaneyan, M.E., Ph.D., Dr. K.B. Jayarraman, M.E.,Ph.D.,** Dean/Academics for providing us the path through which our project can be executed.

We also express our sincerity towards our respected Head of Department **Dr.N.Balaji, D.C.T., B.Tech., M.E., Ph.D.,** who has us with lot of time and provide us space to innovate our project.

We kindly extend our gratitude towards our beloved guide **Dr.N.Balaji, D.C.T., B.Tech., M.E., Ph.D.,** Head of the Department of Computer Science and Engineering who has been provided a backbone for our project and being a supporting pillar for execution and improvement of our project. She is the one who motivated us with lot of new and emerging techniques with its applications.

This encouragement is what we required and allowed us to take our project into the next phase.

Best Project Awards/Publication

- Encouraged Students to do real time applications and publish papers on Journals, Conferences.

Student Name	Title	Year	Awarded
Ajay, Arul Jenifer, Shiyam, Thiruvarasan	EDUCNT	2023-2024	Awarded as best project on real-time ERP project and its live in our group of Institutions.
Kirthiversha.M, Devsri.S, Sowmiya.D, Arunthathi.S, Andal,K	sign language Translation	2023-2024	Published paper on 4th International Conference on Artificial Intelligence, 5G Communications



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			and Network Technologies (ICA5NT 2024)
Surya.K, Sakthi.P, Sushvedan, Vignesh.V	Smart Meter based on IOT	2022-2023	Awarded as best project



Awarded as best project “Smart Meter based on IOT” by Dr.N.Balaji,HOD/CSE



VELAMMAL
INSTITUTE OF TECHNOLOGY

Approved by AICTE New Delhi & Anna University Chennai
Velammal Knowledge Park, Chennai - Kolkatta Highway, Ponneri 601204



ICA5NT 2024

Certificate of Appreciation

is hereby granted to

Mrs K Andal

Sri Venkateshwararaa College Of Engineering and Technology

for **participation and presentation** of paper entitled
sign language translation

has presented at **4th International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2024)** organized by the **Department of Electronics and Communication Engineering & Department of Information Technology**, Velammal Institute of Technology, Chennai held on **21 & 22, March 2024.**

Coordinator
Dr.R.Jothi Chitra
Professor-ECE

Coordinator
Dr.M.Sivarathinabala
Associate Professor-ECE

Coordinator
Mr.V.Vinothkumar
Assistant Professor-IT

Convener
Dr.P.Deivendran
Associate Professor & Head-IT

Convener
Dr.B.Sridevi
Professor & Head-ECE

Principal
Dr.N.Balaji



Sign Language Translation

Kirthiversha.M, Devsri.S, Sowmiya.D, Arunthathi.S, **Andal.K**
Computer Science and Engineering, Sri Venkateshwararaa College of Engineering and
Technology, Pondicherry University, Puducherry, India.
E-mail: kirthivershaofficial123@gmail.com, devsri1209@gmail.com,
sowmiyadurail724@gmail.com, arunthathisaravanan13@gmail.com,
sanandal86@gmail.com.

Abstract: Communication between normal people and people with disabilities i.e. Deaf- Mute society is not easy in day-to-day life. The communication gap between both people is mainly due to a lack of understanding between them. To minimize the gap, our trained model is going to act as a Translator. In this paper, the proposed work demonstrates two functionalities of the translator (a) conversion of text into animated video and (b) production of text by capturing the sign language shown by the deaf-mute people. Therefore, the translator can be widely used among people for better communication without knowing their disabilities. So, in the analysis of Sign Language Recognition (SLR) techniques, for object detection YOLO V7 and recognition of visual letters using Convolutional Neural Network (CNN) and Faster Region-Convolutional Neural Network (Faster R-CNN) can achieve more than 95% in accuracy after the implementation of the proposed model.

Keywords: Sign Language, Deep Learning, Artificial Intelligence, Computer Vision

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Impact Analysis

- Skills or abilities of students improved.
- Knowledge on various aspects of project management are developed
- Confidence level of the students was boosted
- Improved teamwork spirit
- Implementation and deployment of the project for social benefits.
- Document preparation and presentation.
- More tendencies to showcase their project work in project exhibition are observed.