

Front page

WINDOWZ 2021-2022

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FELICITATION

Managing Trustee
Smt. T.R.K. Sarasuwathi



Message from Managing Trustee

It brings me immense pride to witness the progress and achievements of the Department of Computer Science And Engineering, as showcased in this magazine. This publication is not just a collection of departmental events, it is a reflection of the ideas, aspirations, and determination that define our students and faculty.

In today's fast-changing world, education must go beyond the classroom. It must ignite curiosity, nurture ethical values, and empower learners to solve real-world problems. I am proud to see the Department of CSE embracing this broader vision by encouraging innovation, collaboration, and social responsibility.

My heartfelt congratulations to everyone involved in bringing out this magazine. May it serve as both a record of accomplishments and a source of inspiration for many more to come.

Secretary
Dr. K.Priya



Message from secretary

I am delighted to see the publication of the CSE magazine, which beautifully presents the energy, creativity, and commitment of the students and faculty.

Each article, achievement, and event featured in these pages tells a story of effort, learning, and personal growth. This magazine reflects how actively the department engages students not just in academics, but in holistic development.

I encourage all students to make use of every opportunity offered by the department. Learn with purpose, participate with passion, and strive for excellence in all that you do. I sincerely appreciate the editorial team and faculty members who guided this publication. Keep inspiring, keep evolving.

Principal
Dr. C.Natarajan



Message from principal

I extend my congratulations to the Department of CSE on the successful release of this magazine, which stands as a testimony to the department's commitment to quality education, research, and student development.

The contents of this magazine reveal the depth of knowledge, creativity, and discipline cultivated within the department. From technical projects and academic achievements to student-led initiatives, the department continues to set high standards in all spheres.

I commend the faculty for their leadership and guidance, and the students for their enthusiasm and participation. The editorial team deserves special appreciation for capturing the department's journey in such an engaging and meaningful manner. I look forward to witnessing many more accomplishments from the Department of Computer Science And Engineering in the years ahead.

Head of the Department / CSE
Dr. A.Jameer Basha



Message from Head of the Department,

It is with great pleasure that I present this edition of the Department of Computer Science And Engineering magazine, a reflection of the academic spirit, innovation, and collective efforts that define our department.

This magazine captures the essence of these efforts. It highlights the talent, creativity, and resilience of our students, and the unwavering support and mentorship provided by the faculty. Each article, project, and achievement featured here stands as a testimony to our shared commitment to excellence.

I take this opportunity to thank every contributor and the editorial team for their dedication. I also express my sincere gratitude to the management and leadership for their continued support and encouragement.

Let this magazine serve as both a celebration of the present and a motivation for the future.

Together, let us continue striving towardh academic excellence and innovation.

About the department

Department of Computer Science and Engineering has started in the year of 2007. It is established with the vision to provide high-quality education and promote cutting-edge research. The department offers a comprehensive curriculum that blends theoretical foundations with practical applications in computing. The department has well equipped laboratories that provide students with hands-on experience and practical exposure. Department of CSE has been recognized as the Research Centre from the Centre for Research, Anna University.

STAFF NAME LIST - UG

Professor

Dr.Jameer Basha A

Dr.Uma S

Assistant Professor

Dr.Lokesh.S

Dr.Ramasamy S

Mr.Babu Thirumangaialwar.E

Mrs.Kalaiselvi.T

Mr.Pradeep.M

Mr.Muralidharan Arumugam

Mrs.Jeevitha.P

Mrs.Vidhya.D

Mrs.Pavithra.K.S

Mrs.Banupriya.M

Mrs.C.E.Rajaprabha

Mr.Boopathiraja.M

Mrs. Midhun Prabha M P

Mr.Govindaraju.M

Mrs.Rathika Prabhu

Dr.Kala.R

Mrs.Gomathi.P

Mr.Arun.R

Dr.Jayasutha.D

Mrs.Subhalaskhmi.R.T

Mrs.Nishanandhini.A

Mr Suresh Kumar.P

Mr.Senthilkumar.R

Mrs.Pradeepa.V

Mrs.Sofiyabanu.M

Mr.Devendran M

Mr.Murugan K

Mr.Periyasamy.P.N

VISION

To nurture competent Computer Science Engineers who possess the ability to contribute to global projects and collaborations with an emphasis on fostering innovation, research, and development through the pursuit of academic excellence and high standards of teaching and research focusing on ethical conduct and social responsibility, integrating sustainability principles and instill a passion lifelong learning.

MISSION

MD1: To deliver Academic Excellence through the implementation of outcome-based education, extensive research, and the adoption of innovative practices.

MD2: To provide best practical experience through Interdisciplinary Approach, Industrial Collaborations and State-of-the-Art Facilities

MD3: To produce socially responsible engineering graduates by providing them with value-based education and fostering their continuous professional development.

Programme Educational Objective

PEO1: Graduates will demonstrate proficiency in core computer science concepts, theories, and principles to analyze, design, and develop innovative solutions to complex engineering problems to succeed in diverse computing industry sectors adapting to emerging technological trends.

PEO2: Graduates will uphold high ethical standards and demonstrate social responsibility in their engineering practice, function effectively in multidisciplinary teams to collaborate and achieve common goals and engage in continuous learning and professional development.

PEO3: Graduates will exhibit an entrepreneurial mindset, actively pursuing opportunities to develop innovative computer science solutions, services, and products as well as effectively lead and manage projects in the field.

Programme Specific Outcomes

PSO1: Ability to apply programming skills in various languages and implement algorithms and data structures to solve computational challenges.

PSO2: Ability to design, develop, test, and integrate software and hardware components to construct effective and efficient computer-based systems.

Adapting to Hybrid Learning in CSE

The academic year 2021–2022 was a transformative period for the Department of Computer Science and Engineering as it navigated the transition from remote to hybrid learning. With the impact of the pandemic still lingering, the department adopted innovative strategies to ensure that teaching and learning continued seamlessly across both online and offline platforms.

Classroom sessions were blended with virtual platforms, enabling students to attend lectures either in person or remotely. Faculty members embraced digital tools such as Google Meet, Microsoft Teams, and Moodle to conduct interactive sessions, quizzes, and discussions. This flexibility ensured that students remained connected to their academic goals regardless of location or constraints.

Laboratory sessions were reimagined through virtual labs, coding simulators, and live demonstration videos, allowing students to grasp practical concepts effectively. Additionally, recorded lectures and digital resources were made available to reinforce learning and provide revision support.

The department also organized webinars, coding challenges, online workshops, and hybrid seminars to maintain an active learning ecosystem. Guest lectures from industry experts were conducted virtually, enriching the curriculum with real-world insights.

Through a dedicated effort from faculty and students, the CSE department not only adapted to hybrid learning but turned it into an opportunity for growth, resilience, and technological advancement. The success of this model laid the foundation for a more flexible and future-ready academic environment.

Student Startup Culture and Entrepreneurial Growth

The academic year 2021–2022 witnessed a significant rise in the startup culture among Computer Science and Engineering (CSE) students. Fueled by innovation, creativity, and the encouragement of faculty and institutional support systems, students ventured into the world of entrepreneurship with confidence and vision.

With access to incubation support, mentorship programs, and startup bootcamps, students began converting their innovative project ideas into viable business solutions. Many teams participated in national-level innovation contests and startup accelerators, gaining visibility and funding opportunities. Notable startup initiatives from CSE students included solutions in EdTech, AI-driven healthcare, IoT-based home automation, and online productivity platforms.

The department actively supported this ecosystem by organizing workshops on startup ideation, MVP development, and business model design. Industry professionals and successful entrepreneurs were invited for guest lectures to share insights on turning code into a company.

Hackathons and idea pitching contests provided a platform for students to showcase their entrepreneurial thinking. The Innovation & Entrepreneurship Cell of the department also played a pivotal role in nurturing student founders through guidance on funding, prototyping, and legal compliance.

By fostering a culture that values risk-taking, creativity, and self-driven growth, the CSE department has become a breeding ground for future tech entrepreneurs. This spirit of innovation continues to inspire the next generation of student leaders who aim to shape the future through technology and enterprise.

**STTP on IoT Enabled Techniques For
Industrial Automation Processes**

20.09.2021
to
24.09.2021

**Name of the Speaker &
Designation and Organization**

Mr.Jayachandran.J
Project Head
Trinetra Wireless Pvt Ltd,
Tiruchy Road,
Coimbatore.

Dr. Kanthimathi.M
Professor and Head Department
of Computer Science and
Engineering Sri Sairam
Engineering College, Chennai.

Dr.Ushadevi.G
Professor
School of Computing,
VIT, Vellore.

Mr.P.Raju
IoT Engineer
Team Tweaks Technologies Pvt
Ltd, Chennai

Dr.S.Mathivanan,
Assistant Professor
Department of ECE,
Government College of
Technology, Coimbatore.

**National-Level Faculty Development
Programon Demystifying Outcome
Based Education (OBE)**

16.05.2022

to

20.05.2022

**Name of the Speaker &
Designation and Organization**

Dr.Rajeshkumar.N
Professor
Sathayabhamma Institute of Science
and Technology,
Chennai.

Dr.Senthilkumar.S
Professor
Department of Educational Technology
Bharathidasan University
Khajamalai Campus
Tiruchy

Dr.Priya.S
Assistant Professor,
Department of IT, Coimbatore Institute of
Technology, Coimbatore.

Dr.Ezumalai.P
Professor and Head Department
of Computer Science and Engineering
SSN College of Engineering,
Chennai.

Dr.Parthasarathy.M
Associate Professor
Department of Educational Technology
Bharathiar University
Coimbatore

Faculty as Resource Persons in STTPs/FDPs

The Department of Computer Science and Engineering takes pride in the professional achievements of its faculty members, who have contributed as resource persons in various Faculty Development Programs (FDPs) and Short-Term Training Programs (STTPs). Their expertise in emerging technologies has been shared across institutions, promoting academic excellence and collaboration.

- **Dr. Jameer Basha A.** delivered a session on "Blockchain Technology in Medical Application" on 29th July 2021 at Jansons Institute of Technology, Coimbatore, organized by the Department of Computer Science and Engineering.
- **Dr. Uma S.** served as a resource person for an FDP on "Advanced Database Technology" conducted on 5th August 2021 at PA College of Engineering and Technology, Pollachi, organized by the Department of Information Technology.
- **Dr. Lokesh S.** contributed to the FDP on "Emerging Applications in Image Processing" held on 17th September 2021 at Dr. NGP Institute of Technology, Coimbatore, under the Department of Computer Science and Engineering.
- **Mrs. Jeevitha P.** presented insights during the FDP on "Research Insights in Machine Learning" on 27th October 2021 at Dr. Kalaignar Karunanidhi Institute of Technology, Coimbatore, hosted by the Department of Computer Science and Engineering.
- **Mr. Senthilkumar R.** participated as a speaker in the FDP on "Software Engineering Tools and Techniques" organized on 30th November 2021 at Rathinam Technical Campus, Coimbatore, by the Department of Computer Science and Engineering.
- **Dr. Kala R.** shared her knowledge in the FDP titled "Practical Data Structures for Industrial Problem Solving" held on 20th January 2022 at JCT College of Engineering and Technology, Coimbatore, organized by the Department of Information Technology.
- **Mr. Arun M.** served as a resource person for a session on "Global Information System for Environmental Sustainability" conducted on 4th April 2022 at School of Engineering, Coimbatore, under the Department of Computer Science and Engineering.

Working models



Dr.Subhalakshmi.R.T
Working Models

Faculty Internship/Industry

Collaboration Highlight

Mrs.Jeevitha.P – Industry Collaboration with ZOHO Rural Program

- Organized By: ZOHO
- Duration: 06.12.2021 -10.12.2021

Key Outcomes:

- 1.Increased confidence and self-worth among rural youth and women by participating in cutting-edge work.
- 2.Holistic development including soft skills, problem-solving, and practical application of knowledge.

This collaboration reflects our faculty's continuous commitment to upskilling and staying updated with industry trends, which in turn enhances the academic ecosystem for our students.

Consultancy Work

S.N o	Name of PI & Co-PI	Project title	Name of the Funding Agency	Duration of the project	Amount (Lacs)
1.	Dr.Kala.R Mrs.Vidhya.D	Smart Blind Stick	INITZ Technologies	1 year	1,55,000
2.	Dr.Uma.S Mr.Senthilkumar.R	Smart Farming using IoT	Quantanics TechServ Pvt Ltd	1 year	1,60,000
3.	Dr.Lokesh.S Mrs.Banupriya.M	QR Code based Street light control system	Talent Factori Pvt Ltd	1 year	1,78,000
4.	Dr.Ramasamy.S Mr.Devendran.M	An AI Driven& Blockchanin Enabled Employee Tracking & Ethical Rating Platform	M/s. Talent Factori Pvt Ltd	1 year	1,50,000

Faculty Patent Details

Dr.Jameer Basha.A

Title	Application No	Date of Filing	Status
An automated system for diary product supply chain management using IoT	202241023015	19.04.2022	Published
Food nutrition detection system using DL and fuzzy logic	202241022985	19.04.2022	Published
Advanced IoT and AI enabled semi-autonomous vehicle with advanced driver assistance system for commercial purpose	202241023008	19.04.2022	Published

Mr.Periyasamy.P.N.

Title	Application No	Date of Filing	Status
Design System of Autonomous Vehicle State Estimation and Mapping using AI approach	202241032120	10.06.2022	Published

Mrs.Banupriya.M

Title	Application No	Date of Filing	Status
AI based deworming robotics arm system	202241025827	04.05.2022	Published

Mr.Biju Balakrishnan

Title	Application No	Date of Filing	Status
Artificial bionic eye to assist visually impaired people with artificial vision	202241013336	11.03.2022	Published
ML based system to translate text to sign language processing for assisting deaf and hearing impaired people	202241016790	24.03.2022	Published

Faculty as Resource Persons or Participants in STTPs/FDPs

Dr.Jameer Basha.A

Blockchain Technology in
Medical Application

Organized by

Jansons Institute of Technology
29.07.2021 Coimbatore

Dr.Uma.S

FDP Advanced Database
Technology

Organized by

PA College of Engineering
and Technology 05.08.2021
Pollachi

Mrs.Jeevitha.P

Research Insights in
Machine Learning

Organized by

Dr.KalaignarKarunanidhi
Institute of Technology
27.10.2021 Coimbatore

Dr.Lokesh.S

FDP on Emerging
Applications in Image
Processing

Organized by

Dr.NGP Institute of
Technology 17.09.2021
Coimbatore

Mr.Senthilkumar.R

Software Engineering
Tools and Techniques

Organized by

Rathinam Technical
Campus

30.11.2021 Coimbatore

Dr.Kala.R

FDP on “Practical Data
Structures for Industrial
Problem Solving”

Organized by

JCT College of
Engineering and
Technology 20.01.2022
Coimbatore

Mr.Arun.M

Global Information
System for Environmental
Sustainability

Organized by

Amrita School of
Engineering, 04.04.2022
Coimbatore

Journal Publication Highlights – 2021 to 2022

Department of Computer Science and Engineering

The academic excellence of the Department of Computer Science and Engineering is reflected in the quality of research published by our faculty in reputed journals. Their contributions span multiple domains such as artificial intelligence, machine learning, healthcare technologies, security, and data analytics. The following is a brief overview of notable journal publications from the academic year 2021–2022:

- **Dr. S. Lokesh** published a paper titled “Secure and Authenticate Indexing of Medical Images Using Region of Non-Interest” in the Scopus-indexed journal Recent Developments in Medicine and Medical Research in Volume 6, 2021.
- **Ms. P. Gomathi** contributed a UGC-indexed article titled “Better and Smarter Emergency Medical Assistance During Road Accident and Vehicle Impact” in the International Journal of Engineering Applied Sciences and Technology, Volume 6, Issue 6, Pages 258–265, 2021.
- **Mr. P. Arun** authored a paper on “Experiences of Online Learning During COVID-19 Lockdown: A Cross-Sectional Survey Among College Students in India” in the Scopus-indexed International Journal of Community Medicine and Public Health (2021), accessible via DOI.
- **Dr. A. Jameer Basha** published a SCI-indexed article in MDPI Sensors titled “Chaotic Harris Hawks Optimization with Quasi-Reflection-Based Learning: An Application to Enhance CNN Design”, Sensors 2021, 21, 6654.
- **Mr. K. Murugan** published a UGC-indexed survey on “Security Improvements in IoT via SDN” in IJRASET, Volume 10, Issue VII, July 2022.
- **Mr. R. Senthilkumar**, Assistant Professor, published in the SCI-indexed International Journal of Environmental Protection and Ecology, a paper titled “GLCM with Oriented Fast and Rotated Brief Algorithm for Diabetic Retinopathy Prediction”, Vol. 23, Issue 07, Pages 3089–3097, July 2022.

- **Dr. S. Ramasamy**, Associate Professor, published multiple UGC Care-listed papers:
 - “An Improvised Ensemble CNN Algorithm for Detecting Video Streams in Multimedia” in the ICTACT Journal on Image and Video Processing, Vol. 13, No. 2, Pages 2860–2864, November 2022.
 - “Interpretation of Vegetation Using AI in QGIS” in GIS Science Journal, Vol. 09, No. 12, Pages 793–804, December 2022.
- **Mr. Biju Balakrishnan** contributed to the International Journal of Research and Analytical Reviews (IJRAR) with two UGC Care-listed papers:
 - “Semantic Web Mining with Latent Semantic Domain Clustered Web User Application Maps”, Vol. 9, No. 4, Pages 119–128, November 2022.
 - (Co-authored with Ms. P. Gomathi) “Advanced Leaf Disease Detection System Using Machine Learning”, Vol. 9, No. 4, Pages 148–153, November 2022.
- **Dr. S. Lokesh** also had a strong presence in the SCI-indexed International Journal of Health Sciences with the following publications:
 - “CNN-Based Deep Learning Methods for Precise Analysis of Cardiac Arrhythmias”, Vol. 6(S1), Pages 10808–10819, 2022.
 - “Classification of EEG Signals Using Machine Learning and Deep Learning Techniques”, Vol. 6(S1), Pages 10794–10807, 2022.
- **Mr. M. Manicka Raja** published in the SCI-indexed Intelligent Automation and Soft Computing journal, a paper titled “Aggregated PSO for Secure Data Transmission in WSN Using Fog Server”, 2022. DOI: 10.32604/iasc.2022.025665.

These publications showcase the dedication and research acumen of our faculty members and reflect the department's commitment to contributing to global research and innovation.

Students' Participations in Professional Events

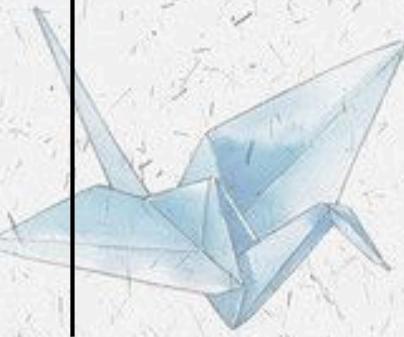
The Department of Computer Science and Engineering applauds the active involvement of its students in various professional technical events across institutions. Their enthusiastic participation and competitive spirit have earned them accolades at both the state and national levels.

- **Kalaivani M, Kolla Venkatasathish, and Chinthalapalli Kiran Kumar Reddy** participated in the national-level Paper Presentation event “Tecxtreme 2021” organized by Chalapathi Institute of Engineering and Technology, Guntur. The team secured the Third Prize for their outstanding presentation held on 17th and 18th December 2021.
- **Nhasik Mohammed N, Nirmal Dev M, and Muthukumar M** took part in Krizen 21—a national-level Paper Presentation competition hosted by Sri Krishna College of Engineering and Technology. The event, conducted from 12th to 15th September 2021, saw the team achieve a commendable Third Prize.
- **Abhisha, Divyadharshini F R, and Leela Christy I** showcased their innovative project in TEKSPARK 21, a state-level Project Presentation event organized by Karpagam Institute of Technology. Their impressive performance earned them the Second Prize, during the event held between 29th and 31st October 2021.

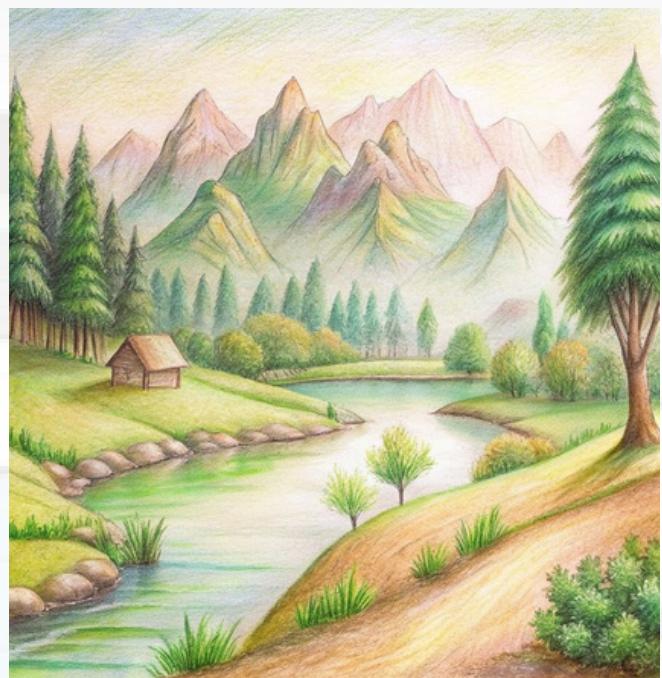
These achievements reflect the department's encouragement toward experiential learning and student excellence beyond the classroom.



STUDENTS GALLERY

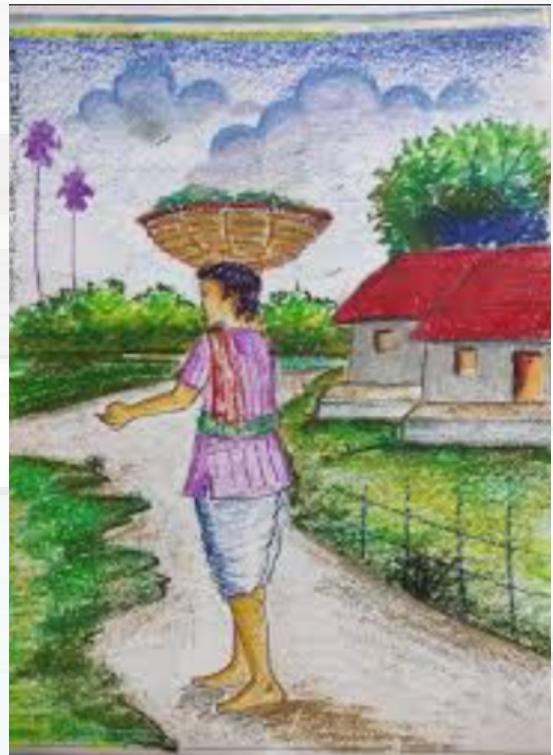


SUBHA SHREE
CSE C



SHARMILA S
CSE C

ANANDHINI R
CSE A



SAHADEVAN G
CSE C

PUGAZH R
CSE B



RAHUL M
CSE B

கல்லூரி வாழ்வு வண்ணமயமானது,
அறிவு நிறைந்த செழிப்பான நல்வழி,
நண்பர்களோடு புன்னகை பரிமாறும்,
மனதில் சிந்தனைகள் மலர்ந்திடும்,
எங்கும் ஒளி தந்திடும் அந்த தருணம்!

FAISAL M
CSE C

நீலகண் கனவுகள் வாழும் அந்த தருணம்,
ஆசை சுடர் ஏறி மாறும் வாழ்வின் பக்கம்,
தன்னம்பிக்கை கோரிக்கைகள் எல்லாம் நிறைந்து,
வெற்றி நெறி தாண்டி வருகையில் நிமிரும்,
மாறாத நினைவுகள் மனதில் ஓங்கும்!

SNOWVIN VIJAY
CSE C

மதிய நிழலில் மடியில் முத்தம் மலர்ந்தது,
கண்கள் பேசும் கண்ணீர் நிறைந்த நினைவுகள்,
கல்லூரி காலத்தின் இனிய காதல் நெஞ்சில்,
சிறகேறி பறக்கும் கனவுகள் மலர்ந்திடும்,
நமது அந்த ஒற்றை காதல் என்றும் வாழும்!

SHRI KRISHNA
CSE C

ஆசிரியர் அன்பே ஓளி கொடுக்கும் பாதை,
மாணவர் மனதில் விதைக்கும் அறிவு விதை,
நெஞ்சும் நீளும் இந்தக் கற்றல் உறவு,
காலமும் மாறினும் உறவும் அமையும்,
விழிகளின் வெளிச்சம் என்றும் நீங்காது!

PRAVEEN KUMAR C
CSE A

கைகள் சிரமம் சுமந்து முன்னேறினால்,
விழிகள் தேடும் வெற்றியின் வெளிச்சம்,
தோல்வி நெருக்கம் தாண்டி நம்பிக்கை சேர்த்து,
தோழனாய் உழைப்பு தரும் கனவுகள் நிச்சயம்,
வாழ்க்கை வெள்ளிக்கதிர் போல மினிரும்!

AKSHAYA KARTHICK K
CSE A

மனசுக்குள் நீங்காத நாய் நட்பு,
பொதுவில் பேசும் மொழி அன்பு.
நிலா போலத் தெளிவாய் தோன்றும்,
என் வாழ்வில் நீயே சிறந்த சுயம்.

PRISCILLA JOSEPH
CSE B



HINDUSTHAN

INSTITUTE OF TECHNOLOGY



HINDUSTHAN INSTITUTE OF TECHNOLOGY



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