NEWSLETTER

2024 -2025

DEPARTMENT OF COMPUTER SCIENCE AND
BUSINESS SYSTEMS

VSBEC / CSBS

V.S.B. ENGINEERING COLLEGE

(AN AUTONOMOUS INSTITUTION)

Approved by AICTE,New delhi,Affiliated to Anna University Chennai
An ISO 9001:2015 Certified Institution
Accredited by NAAC, NBA Accredited Courses
Anna University Recognised Research Institute

V.S.B. Educational Trust was founded in the year 2000 by Mr.V.S.Balsamy, the founder and correspondent of the V.S.B.Group of Institutions, with an interest in promoting, managing and administrating educational institutions with high academic standards, discipline and to take up and help other allied activities in the field of education. Under the Trust, V.S.B. Engineering College was established in the year 2002 and V.S.B College of Engineering Technical Campus in the year 2012

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FOUNDER & CHAIRMAN

Shri.V.S.Balsamy, B.Sc., L.L.B., a leading luminary, has 31 years of bright standing in the field of law. He is the recipient of "Indira Gandhi Sadhbavana Award" from Global Economic Council, New Delhi. He was also honoured with "The Best Humanitarian Award" in 2005.VSB Educational Trust was founded by him as the Founder-Trustee in the year 2000. He started V.S.B. Engineering College in Karur in the year 2002 and V.S.B. College of Engineering-Technical Campus in Coimbatore in the year of 2012. He, the Correspondent of VSB Group of Institutions, lays emphasis on 'Hard Work'. As he strongly believes that "HARD WORK IS THE KEY TO SUCCESS", it is conceived as the motto of the Institutions.

Words from the Chairman's Desk

Warm Greetings! Our Institution, a temple of learning and a hallmark of discipline, treads towards the zenith of glory by preferring the education of global standards in the best quality and variety, and substantiates to be a benchmark among all the colleges in India. The College Management, the members of the faculty and all other employees travail together with the resolution of grading our College at the topmost rung of the ladder of education. Within a short span of time, we have provided the students with all the requirements as necessitated by the University Norms. We give an impetus for ever to our V.S.B. Engineering College. I cordially greet all the students, who strive for academic and moral excellence, to be a part of the V.S.B.Educational family and to graduate successfully as world-class professionals. I do always solicit the entrepreneurs / recruiters to conduct campus recruitment drive in our institution and I assure that our students will ascertain their expertise in the organizations in which they are recruited for mutual development. With regards,

SHRI . V . S. BALASAMY , B.SC., L.L.B.,
FOUNDER & CHAIRMAN,
VSB GROUP OF INSTITUTIONS

ABOUT THE DEPARTMENT

The Department of **Computer Science and Business Systems (CSBS)** is a relatively new department that focuses on the intersection of computer science and business. The department's curriculum is designed to prepare students for careers in a variety of fields, including software development, IT management, data analytics, and business intelligence. CSBS programs are often offered in collaboration with industry partners, which gives students the opportunity to gain real-world experience and learn about the latest trends and technologies. Upon graduation, CSBS students are well-prepared for careers in a variety of industries. The CSBS department is a growing field, and the demand for CSBS graduates is expected to continue to increase in the coming years. As businesses become increasingly reliant on technology, CSBS graduates will be in high demand for their skills in both computer science and business. CSBS graduates have the opportunity to work on the latest and greatest technologies, such as data analytics, machine learning, and artificial intelligence.

VISION & MISSION

VISION

- To produce professionals as industry ready in the field of computer science and business system with strong human values to serve the nation.

MISSION

- Offer a well-designed and updated curriculum that covers essential principles and practical skills in information technology. This should include technical knowledge, programming expertise, database management, network administration, cybersecurity, and emerging technologies. Ensure a balance between theoretical concepts and hands-on experience through practical assignments, projects, and internships.

- Provide opportunities for students to develop their soft skills, including effective communication, teamwork, leadership, and emotional intelligence. Offer workshops and extracurricular activities that promote self-confidence, creativity, and problem- solving abilities.

- Developing problem solving and analytical skills with sound knowledge in basic sciences and Computer Science Engineering.

- Embed the importance of ethical values, integrity, and social responsibility in the institution's culture. Encourage community service, social initiatives, and sustainable practices that contribute to the betterment of society.

- Encourage students and faculty members to engage in research and innovation in the field of information technology. Provide resources and support for research projects, collaborations, and participation in national/international conferences. This will foster a culture of continuous learning, creativity, and technological advancement.

PEO' S & PSO' S

Program Educational Objectives (PEO'S)

PEO 1: Choose a specific engineering discipline or field based on personal interest and market demand. Specializing in areas such as mechanical engineering, electrical engineering, civil engineering, chemical engineering, or computer engineering will allow for in-depth knowledge and expertise.

PEO 2: Embrace a mindset of continuous improvement. Seek feedback, learn from failures, and strive for excellence in all aspects of engineering work. Continuously upgrade technical expertise, professional skills, and knowledge to stay ahead in a competitive industry.

PEO 3: Develop strong problem-solving skills, a critical attribute for engineers. Enhance analytical thinking, logical reasoning, and systematic approaches to problem-solving through practice, case studies, and projects. This helps in formulating effective and efficient solutions for industrial problems.

Program Specific Outcomes (PSO'S)

PSO 1: Based on the identified requirements and process analysis, design BPM solutions that address the specific needs of the industry or social sector. This involves defining the desired state of the processes, documenting process flows, creating system specifications, and designing user interfaces.

PSO 2: Develop the BPM solutions based on the defined design and system specifications. This may involve custom development, configuration of BPM software, or integration with existing systems. Ensure a systematic approach to development, including thorough testing, debugging, and quality assurance.

PSO 3: Foster collaboration within the industry or social sector to share best practices and lessons learned in BPM. Encourage collaboration among organizations, academia, and relevant stakeholders to collectively seek innovative solutions and address common challenges.

PROGRAM OUTCOMES

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

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.

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.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

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

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

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.

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.

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

HOD' S MESSAGE

Mr.P.Anbumani M.E.,(Ph.D).,

HOD CSE

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Welcome to the Department of Computer Science and Engineering! In this magazine, we highlight our faculty achievements, student successes, and inspiring alumni stories that reflect our dedication to excellence. You'll discover insights into cutting-edge research, the latest emerging technologies, and our strong industry collaborations that enhance learning and career opportunities. Stay updated on upcoming events, seminars, and workshops designed to foster growth and knowledge. We also offer coding tips to improve your skills, share our initiatives for promoting diversity and inclusion, and take a look at the history of computing and the pioneers who shaped the tech world. Through all of this, we aim to create an environment of innovation and learning where students thrive and prepare for a successful future in computer science

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LABORATORY FACILITIES

PROGRAMMING LAB -I

Configuration : System - Dell , Processor - Core i3 12th Gen, RAM - 8GB ,
Hard disk - 256 GB M.2 NVMe SSD
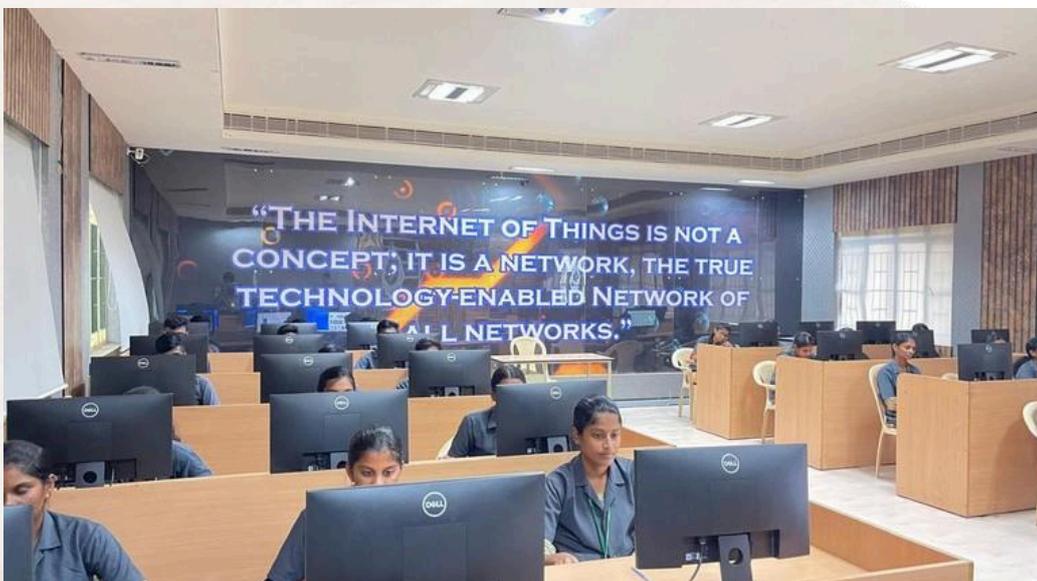Monitor - 20" E2020H , OS - Windows 11 Home

SIZE:- 175 SQR.MT   OVERALL AMBIENCE:- 60

PROGRAMMING LAB -II

Configuration : System - Dell , Processor - Core i3 12th Gen
RAM - 8GB , HaBrdodidsky- 256 GB M.2 NVMe SSD
Monitor - 20" E2020H , OS - Windows 11 Home

SIZE:- 87.5 SQR.MT   OVERALL AMBIENCE:- 30

LABORATORY FACILITIES

PROGRAMMING LAB -III

Configuration : System - Dell , Processor - Core i3 12th Gen RAM - 8GB, Hard disk - 256 GB M.2 NVMe SSD Monitor - 20" E2020H, OS - Windows 11 Home

SIZE:- 87.5 SQR.MT   OVERALL AMBIENCE:- 31

PROGRAMMING LAB -IV

Configuration : System - Dell , Processor - Core i3 12th Gen RAM - 8GB , Hard disk - 256 GB M.2 NVMe SSD
Monitor - 20" E2020H , OS - Windows 11 Home

SIZE:- 87.5 SQR.MT   OVERALL AMBIENCE:- 30

LABORATORY FACILITIES

PROGRAMMING LAB -V

Configuration : System - Dell , Processor - Core i3 12th Gen RAM - 8GB , Hard disk - 256 GB M.2 NVMe SSD Monitor - 20" E2020H , OS - Windows 11 Home

SIZE:- 175 SQR.MT   OVERALL AMBIENCE:- 60

PROGRAMMING LAB -VI

Configuration : System - Dell, Processor - Core i3 12th Gen RAM - 8GB , Hard disk - 256 GB M.2 NVMe SSD Monitor - 20" E2020H, OS - Windows 11 Home

SIZE:- 87.5 SQR.MT   OVERALL AMBIENCE:- 30

DEPARTMENT RESULTS

EVEN SEMESTER (2023-2024)

OVERALL RESULTS :   87.29

INNOVATIVE EVENTS

HOW TO BUILD A START UP ?

M D SATHEES KUMAR
CO FOUNDER,

CYBERXTRON TECHNOLOGIES,
CHENNAI

INNOVATIVE EVENTS

V.S.B. ENGINEERING COLLEGE, KARUR
(AN AUTONOMOUS INSTITUTION)
Anna University Recognized Research Institute
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
NBA Accredited Courses, Accredited by NAAC

23 YEARS OF EXCELLENCE
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(Ministry of Education Initiative)

COMPUTER SOCIETY OF INDIA
ESTD. 1965

DEPARTMENT OF
CSE / IT / AI & DS
Organizes

INTERNATIONAL
GUEST LECTURE
(Online)

Strategies to crack interviews on networking

OCTOBER 01 2024

02.00 pm

RESOURCE PERSON
Mr. AR KARTHICK
HEAD OF DEVOPS, NOON, UAE.

| SHRI. V.S.BALSAMY CHAIRMAN | SHRI. B. SATHEESH KUMAR VICE CHAIRMAN | SHRI. B. VIJAY SECRETARY |

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STRATEGIES TO CRACK INTERVIEWS ON NETWORKING

MR.AR KARTHICK
HEAD OF DEVOPS, NOON, UAE.

INNOVATIVE EVENTS

HACKATHON

CODE CHEF CONTEST 2K24

CREATION OF WEB APPLICATION

NPTEL ACHIEVEMENTS

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

YOGESH R

for successfully completing the course

Cyber Security and Privacy

with a consolidated score of **57** %

Online Assignments	23.13/25	Proctored Exam	33.68/75

Total number of candidates certified in this course: **6461**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Oct 2024
(12 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam
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Roll No: NPTEL24CS121S952600569   To verify the certificate   No. of credits recommended: 3 or 4

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

VIJAY SRI V

for successfully completing the course

Data Science for Engineers

with a consolidated score of **55** %

Online Assignments	24.58/25	Proctored Exam	30/75

Total number of candidates certified in this course: **3812**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Sep 2024
(8 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam
FREE ONLINE EDUCATION

Roll No: NPTEL24CS133S338800251   To verify the certificate   No. of credits recommended: 2 or 3

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Elite
NPTEL ONLINE CERTIFICATION
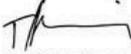(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

HARIHARAN K

for successfully completing the course
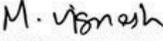
Data Science for Engineers

with a consolidated score of **75** %

Online Assignments	22.08/25	Proctored Exam	52.5/75

Total number of candidates certified in this course: **3812**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Sep 2024
(8 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

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कौशल भारत-कुशल भारत

This certificate is awarded to

SRICHARAN S Y

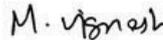for successfully completing the course

Cyber Security and Privacy

with a consolidated score of **50** %

Online Assignments	19.69/25	Proctored Exam	30/75

Total number of candidates certified in this course: **6461**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Oct 2024
(12 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

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Roll No: NPTEL24CS121S1061100135   To verify the certificate   No. of credits recommended: 3 or 4

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NPTEL ONLINE CERTIFICATION
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Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

VARUN S

for successfully completing the course

Cyber Security and Privacy

with a consolidated score of **53** %

Online Assignments	23.13/25	Proctored Exam	30/75

Total number of candidates certified in this course: **6461**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Oct 2024
(12 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

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FREE ONLINE EDUCATION

Roll No: NPTEL24CS121S952600566   To verify the certificate   No. of credits recommended: 3 or 4

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Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

VIJAY SRI V

for successfully completing the course

Data Science for Engineers

with a consolidated score of **55** %

Online Assignments	24.58/25	Proctored Exam	30/75

Total number of candidates certified in this course: **3812**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Sep 2024
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Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

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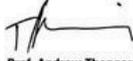### NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)
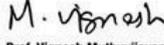
Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

VAISHNAVI S

for successfully completing the course

Data Science for Engineers

with a consolidated score of **64** %

Online Assignments	23.71/25	Proctored Exam	40.5/75

Total number of candidates certified in this course: **3812**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Sep 2024
(8 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

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NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

Skill India
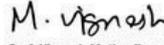कौशल भारत - कुशल भारत

This certificate is awarded to

RAKASRI L

for successfully completing the course

Data Science for Engineers

with a consolidated score of **56** %

Online Assignments	22.96/25	Proctored Exam	33/75

Total number of candidates certified in this course: **3812**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Sep 2024
(8 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
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NPTEL ACHIEVEMENTS

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(Funded by the MoE, Govt. of India)

This certificate is awarded to

VINOTHA E

for successfully completing the course

Data Science for Engineers

with a consolidated score of **63** %

Online Assignments	21/25	Proctored Exam	42/75

Total number of candidates certified in this course: 3812

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Sep 2024
(8 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

Roll No: NPTEL24CS133S338800255   To verify the certificate   No. of credits recommended: 2 or 3

STUDENTS CORNER

DRAWINGS & CLIPPING OF THE STUDENTS

BY
SANCHANA N
I -CSBS

BY
JAYA SURYA S
III - CSBS

CLIP BY
PRAKALYA
I - CSBS

EDITORIAL TEAM

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B.SC.,L.L.B.,CHAIRMAN

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HOD

EDITOR   :   Dr.M.SANGEETHA M.E.,PH.D.,
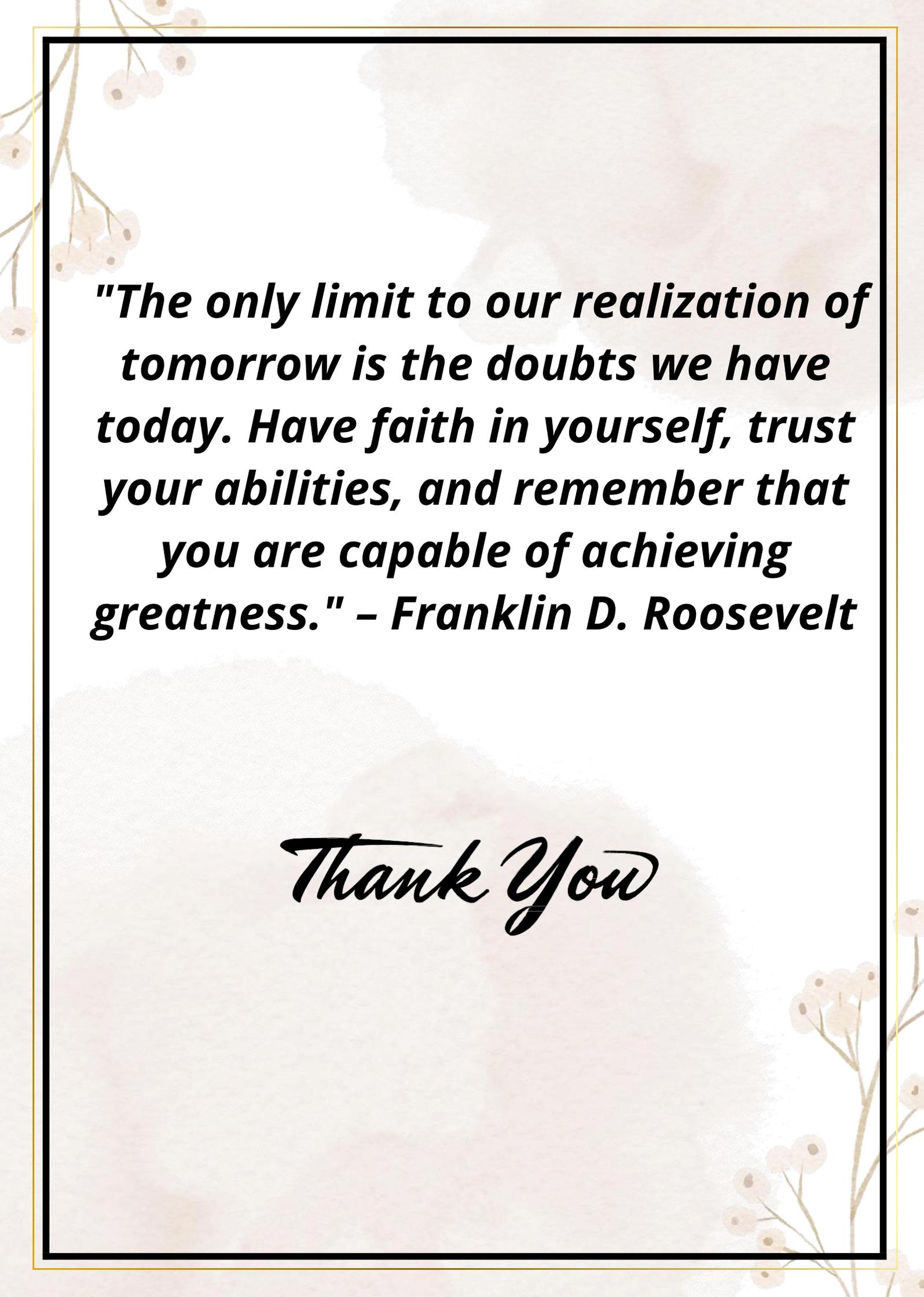HOD

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Asst.Prof CSE

"WE'RE EXCITED TO PRESENT THE LATEST EDITION OF OUR CSE DEPARTMENT MAGAZINE! INSIDE, YOU'LL FIND A GLIMPSE INTO THE INCREDIBLE RESEARCH, IMPRESSIVE SKILLS, AND SIGNIFICANT MILESTONES THAT SHOWCASE OUR DEPARTMENT'S CONTINUED GROWTH AND SUCCESS."

Innovation is the lifeblood of our department. Explore how our students and faculty are pushing the boundaries of technology and pioneering new solutions. We take pride in the culture of excellence that permeates our department . Discover the outstanding research , projects , and academic achievements featured in this magazine . Collaboration is key to our success . Learn about the collaborative projects, partnerships, and interdisciplinary efforts that make our department a hub of creativity . Diversity is our strength. We celebrate the diverse backgrounds and perspectives that contribute to the richness of our department and the solutions we create. I extend my heartfelt gratitude to all the contributors, without them this magazine would not be possible. Your dedication and passion are truly appreciated.

STUDENT EDITORS

LOKESH M & KATHIRVEL P
II CSBS

"The only limit to our realization of tomorrow is the doubts we have today. Have faith in yourself, trust your abilities, and remember that you are capable of achieving greatness." – Franklin D. Roosevelt

Thank You