VELAMMAL
COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous)
MADURAI

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COE – MUTHIRAI ON ARTIFICIAL INTELLIGENCE

Promotion in Social Media

Social Media	https://www.linkedin.com/posts/velammal-college-of-engineering-and-technology-madurai-644217375_velammal-college-of-engineering-and-technology-activity-7398955453013172224-JZ1C?utm_source=share&utm_medium=member_desktop&rcm=ACoAADpvZVwBPLznsclHf940evAYoCiPJtJEPQs
Face book	NA
Twitter	NA
YouTube	NA

Academic Year	**2025-2026**
Program driven by	Centre of Excellence
Program Associated with	IIC/INDUSTRY INSTITUTE INTERACTION CELL
Quarter	II
Activity Name	Centre of Excellence
Programme Type	Industry Collaboration
Program Starts Date	24.11.2025
Program Ending Date	24.11.2025
Number of Students Participants	60
Number of Faculty Participants	32
Number of Expert Participants, If Any	02
Expenditure, If Any	Nil
Mode of Delivery	Offline
Remark	Centre of Excellence of Muthirai on Artificial Intelligence

Objectives	**Objectives of the Centre of Excellence – Muthirai on Artificial Intelligence** • To establish a **state-of-the-art Centre of Excellence in Artificial Intelligence** that promotes innovation, research, and industry-relevant learning. • To empower students with **future-ready AI skills** aligned with the **Intel AI for Future Workforce Program**. • To bridge the gap between **academic curriculum and real-world AI applications** through hands-on projects and experiential learning. • To foster **industry–academia collaboration** with global technology leaders such as **Intel Corporation and Dell Technologies**. • To nurture **ethical, responsible, and scalable AI solutions** that address societal and industrial challenges. • To encourage students and faculty to engage in **research, innovation, certifications, and AI-driven entrepreneurship**.
Benefits in terms of learning/skill/knowledge development	**Learning Outcomes** • Exposure to **cutting-edge AI concepts** including Machine Learning, Deep Learning, and Agentic AI. • Hands-on experience with **industry-standard tools, platforms, and frameworks**. • Understanding of **real-world AI problem-solving approaches**. **Skill Development** • Development of **analytical, critical thinking, and problem-solving skills**. • Enhancement of **programming and model-building skills** for AI applications. • Strengthening of **collaboration, teamwork, and project management skills**. • Improved **presentation, communication, and technical articulation skills**. **Knowledge Enhancement** • Insight into **emerging AI trends and autonomous systems** shaping the future of work. • Awareness of **ethical AI, responsible AI deployment, and societal**

	impact. • Alignment with **global AI competency standards** defined by Intel Digital Readiness.
Program Coordinator (S)	Mr.KR.Senthil Murugan, AP II/CSE Dr.A.M.Rajeswari, ASP/CSE
Attachments	
Video (to be uploaded in the YouTube Channels)	NIL
Proofs	Attached Below
Summary Document/ Overall Report of the Activity	Attached Below

Overall Report of the Activity	
Date:	24.11.2025
Time:	10 A.M to 1 P.M
Speaker:	**Dr. Aswathy Ravikumar** Intel Certified Trainer, Intel Digital Readiness
Topic:	**Agentic AI: The Future of Autonomous and Intelligent Systems**

Speaker Profile:

Dr. Aswathy Ravikumar is an Intel Certified Trainer with extensive expertise in Artificial Intelligence, Machine Learning, and emerging AI paradigms. She is actively involved in training students and faculty across institutions under the Intel Digital Readiness Program, enabling them to build industry-relevant AI skills. Her sessions focus on practical AI implementations, future AI architectures, and workforce readiness.

Key Learning and Take-Aways:

- Understanding the concept of Agentic AI and how it differs from traditional AI systems.
- Insights into autonomous decision-making, intelligent agents, and multi-agent systems.
- Exposure to real-world use cases of Agentic AI in healthcare, automation, and enterprise solutions.
- Knowledge of how next-generation AI systems are transforming industries and job roles.
- Motivation for final-year students to explore advanced AI research, projects, and career pathways.

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CENTRE OF EXCELLENCE (COE) REPORT

CENTRE OF EXCELLENCE – MUTHIRAI ON ARTIFICIAL INTELLIGENCE

1. Introduction

Velammal College of Engineering and Technology (VCET), through the Department of Computer Science and Engineering, has established the Centre of Excellence – Muthirai on Artificial Intelligence to promote advanced learning, innovation, and industry-aligned skill development in Artificial Intelligence (AI). The CoE serves as a strategic academic and research hub that prepares students for emerging AI-driven careers and societal challenges.

The Centre of Excellence was inaugurated by the Chief Guest, Ms. Saloni Singhal, Senior Program Manager, Intel Digital Readiness Programs (APAC & Japan), Intel India, along with the Session Speaker, Dr. Aswathy Ravikumar, Intel Certified Trainer, Intel Digital Readiness. The event was graced by the presence of Dr. N. Rajkumar, Director, Dr. P. Alli, Principal, and Dr. G. Vinoth Chakkaravarthy, HoD/CSE,event coordinator Mr.KR.Senthil Murugan, AP/CSE and faculties and students marking a significant milestone in the institution's AI innovation journey.

The CoE is established under the AI for Future Workforce Program of Intel Digital Readiness, a national-level initiative aimed at equipping higher education institutions with structured AI skill pathways, experiential learning models, and globally benchmarked training methodologies.

2. Industry Collaboration and Support

The Centre of Excellence is supported by Intel Corporation and Dell Technologies, enabling access to:

- Industry-curated AI curricula
- Structured learning pathways
- Faculty enablement programs
- Industry-standard tools and platforms

The institution acknowledges the leadership and guidance of Ms. Shweta Khurana for her contributions towards democratizing AI education and enabling scalable impact through Intel Digital Readiness.

3. Objectives of the Centre of Excellence

The key objectives of the Centre of Excellence – Muthirai on Artificial Intelligence are:

1. To establish a state-of-the-art AI learning and research facility that promotes innovation, applied research, and industry-relevant learning.
2. To empower students with future-ready AI competencies aligned with the Intel AI for Future Workforce Program.
3. To bridge the gap between academic curriculum and real-world AI applications through hands-on projects and experiential learning.
4. To foster industry–academia collaboration with global technology leaders such as Intel Corporation and Dell Technologies.
5. To promote ethical, responsible, and scalable AI solutions addressing societal and industrial needs.
6. To encourage students and faculty participation in research publications, certifications, innovation challenges, and AI-driven entrepreneurship.

4. Benefits in Terms of Learning, Skill, and Knowledge Development

4.1 Learning Outcomes

- Exposure to advanced AI concepts including Machine Learning, Deep Learning, Generative AI, and Agentic AI.
- Hands-on experience with industry-standard AI tools, platforms, and frameworks.
- Practical understanding of real-world AI problem-solving methodologies.

4.2 Skill Development

- Development of analytical, critical thinking, and problem-solving skills.
- Enhancement of programming proficiency and AI model development capabilities.
- Strengthening of teamwork, collaboration, and project management skills.
- Improvement in technical communication, presentation, and documentation skills.

4.3 Knowledge Enhancement

- Insight into emerging AI trends, autonomous systems, and intelligent agents.
- Awareness of ethical AI principles, responsible deployment, and societal impact.
- Alignment with global AI competency standards defined by Intel Digital Readiness.

5. Technical Session Conducted During Inauguration

Speaker

Dr. Aswathy Ravikumar
Intel Certified Trainer, Intel Digital Readiness

Topic

Agentic AI: The Future of Autonomous and Intelligent Systems

Speaker Profile

Dr. Aswathy Ravikumar is an Intel Certified Trainer with expertise in Artificial Intelligence, Machine Learning, and next-generation AI paradigms. She is actively involved in faculty and student training initiatives across institutions under the Intel Digital Readiness Program. Her sessions emphasize practical AI implementations, future AI architectures, and workforce readiness.

Key Learning and Takeaways

- Understanding the fundamentals of Agentic AI and its distinction from traditional AI systems.
- Insights into autonomous decision-making, intelligent agents, and multi-agent systems.
- Exposure to real-world applications of Agentic AI in healthcare, automation, and enterprise solutions.
- Awareness of how AI-driven autonomy is reshaping industries and job roles.
- Motivation for final-year students to pursue advanced AI research, projects, and career pathways.

6. CoE Implementation and Action Plan

6.1 CoE Implementation Overview

The Centre of Excellence functions as a specialized hub for AI skilling, applied research, project development, and faculty upskilling. It supports the systematic execution of the Intel AI for Future Workforce curriculum and facilitates AI competency development across disciplines.

6.2 Key Implementation Objectives

- Deliver multi-stage AI skilling from awareness to capstone level.
- Enable hands-on experiential learning through a dedicated AI Skills Lab.
- Promote interdisciplinary AI projects and innovation challenges.
- Offer certification programs in No-Code AI, Python, Applied AI, and Generative AI.
- Strengthen faculty competency through continuous professional development.
- Build industry-ready student project portfolios.

7. Action Plan and Execution Strategy

Stage	Implementation Plan
Awareness & Foundation	Awareness and foundation modules integrated for Semester 1 & 2 students across all branches
Foundation Skill Training	Python programming and AI basics workshops
Applied Learning	Domain-specific Applied AI modules from Semester 3 onwards
Advanced Certification	Generative AI certification programs for pre-final and final-year students
Project Development	Capstone and mini-project support through the CoE AI Lab
Career Readiness	Sessions on AI ethics, soft skills, design thinking, and goal setting
Faculty Development	Continuous Faculty Development Programs aligned with Intel resources

8. Outcome and Impact

- Improved student employability and AI job readiness.
- Enhanced faculty expertise in AI teaching and research.
- Increased industry-aligned projects, certifications, and internships.
- Strengthened institutional visibility and industry collaboration.
- Contribution to NBA Program Outcomes (POs), Program Specific Outcomes (PSOs), and Graduate Attributes.

9. Conclusion

The Centre of Excellence – Muthirai on Artificial Intelligence represents a transformative academic initiative that aligns institutional vision with national AI skilling priorities. Through structured learning pathways, industry collaboration, and applied research, the CoE significantly enhances the quality of technical education, fulfilling NBA quality benchmarks and preparing students for leadership roles in an AI-driven world.