

Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD (now MoE)

Re-accredited with 'A++' Grade by NAAC.CGPA 3.65/4, Category I by UGC

Coimbatore-641 043, Tamil Nadu, India



**Report of the
Fifth Short Term Capacity Building Program
on**

Artificial Intelligence Assisted Science Education

**Organised
by**

**AIU – Avinashilingam Institute – Academic and
Administrative Development Centre (AIU-AI-AADC)**

15.07.2024 - 19.07.2024

Mode : Online

Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD (now MoE)

Re-accredited with 'A++' Grade by NAAC.CGPA 3.65/4, Category I by UGC

Coimbatore-641 043, Tamil Nadu, India



Fifth Short Term Capacity Building Program on

Artificial Intelligence Assisted Science Education

PROGRAMME COORDINATORS

Dr. Shubashini K. Sripathi

Deputy Dean-School of Physical Sciences and Computational
Sciences Professor, Department of Chemistry
Avinashilingam Institute for Home Science and Higher Education
for Women, Coimbatore – 641 043

Dr. P. Subashini

Coordinator, Centre for Machine Learning and Intelligence
Professor of Computer Science
Avinashilingam Institute for Home Science and Higher Education
for Women, Coimbatore – 641 043



Avinashilingam Institute for Home Science and Higher Education for Women
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD(now MoE)
Re-accredited with 'A++' Grade by NAAC.CGPA 3.65/4, Category I by UGC.
Coimbatore-641 043, Tamil Nadu, India



AIU-AI-AADC

Fifth Short-Term Capacity Building Programme for the year 2024 on

‘Artificial Intelligence Assisted Science Education’

15.07.2024 to 19.07.2024 (5 Days) - Online Mode

CONTENTS

S.No	Particulars	Page. No
1	Report	1-27
2	Programme Brief	28
3	Feedback from the Participants	29-33
4	Participants List	34-37
5	Sample Certificate	38
6	Working Schedule	39
7	Brochure	40-47



**AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND
HIGHER EDUCATION FOR WOMEN**

**(Deemed to be university under category 'A' by MHRD, Estd. u/s 3 of UGC
Act 1956) Re-accredited with 'A++' Grade by NAAC, Recognized by UGC
under section 12B Coimbatore-641 043, Tamil Nadu, India**

**Report on Fifth Short-Term Capacity Building Program for
the year 2024**

“Artificial Intelligence Assisted Science Education”

Organized By

The AIU-AI-AADC

**(Association of Indian Universities -
Avinashilingam Institute Academic &
Administrative Development Centre)**

&

**Centre for Machine Learning and
Intelligence**

&

**School of Physical Sciences and
Computational Sciences**

15.07.2024 - 19.07.2024



AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN

(Deemed to be university under category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956) Re-accredited with 'A++' Grade by NAAC, Recognized by UGC under section 12B Coimbatore-641 043, Tamil Nadu, India

AIU-AI-AADC

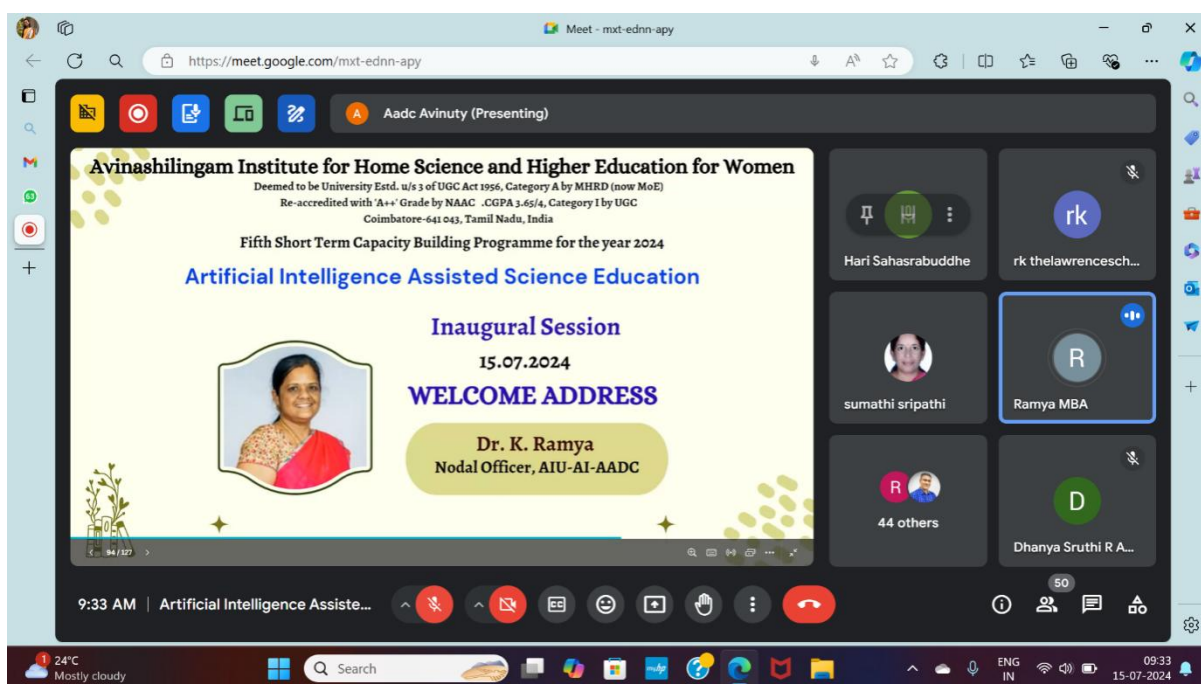
Report on Fifth Short-Term Capacity Building Program

Artificial Intelligence Assisted Science Education

15.07.2024 - 19.07.2024

The AIU-AI-AADC (Association of Indian Universities - Avinashilingam Institute - Academic & Administrative Development Centre), Centre for Machine Learning and Intelligence and School of Physical Sciences and Computational Sciences jointly organized its Fifth Short-Term Capacity Building Program on Artificial Intelligence Assisted Science Education for 2024 from 15th July to 19th July 2024.

The program aimed to enhance the skills, knowledge and confidence of participants in integrating AI technologies into science education and to familiarize them with AI concepts, including machine learning, natural language processing, data analytics and intelligent tutoring systems. They were also trained on techniques for using AI to support active learning, including interactive simulations and approaches in using AI to cater to diverse learning needs and styles, providing tailored support for students with varying abilities. Seventy Two from diverse institutions attended online sessions, focusing on integrating artificial intelligence tools in science education.

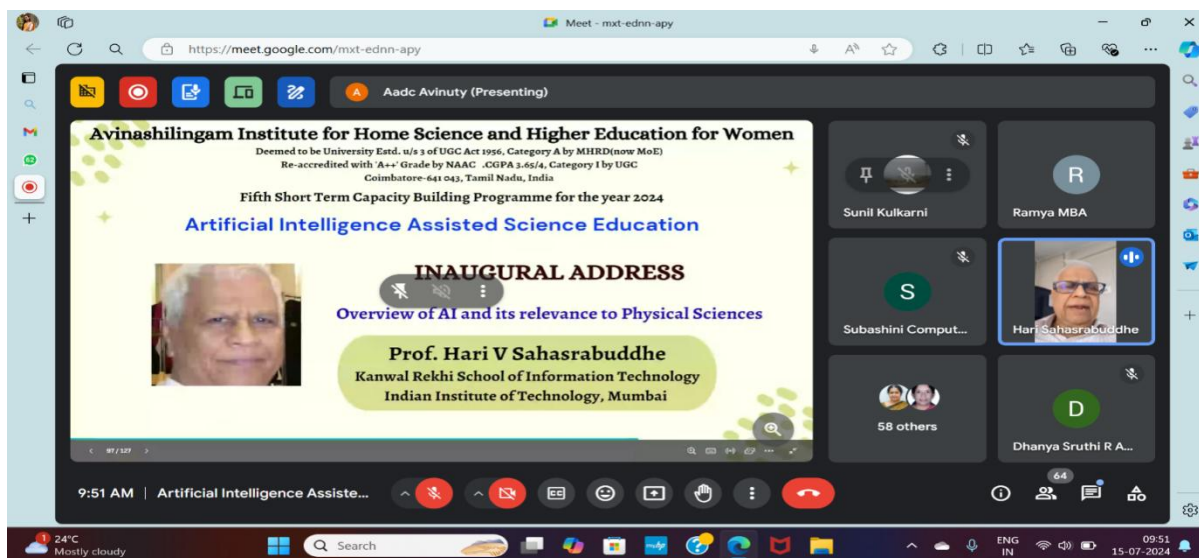


The program began with a prayer, followed by Dr. K. Ramya, Nodal Officer, AIU-AI-AADC, welcoming the gathering. The brief for the 5-day event was presented by Dr. Shubashini K Sripathi, Professor, Department of Chemistry, Avinashilingam Institute for Home Science and Higher Education for Women and Programme Coordinator.

Day 1: 15.07.2024 Session 1

Inaugural address

Dr. Hari. V. Sahasrabuddhe, Retired Professor, Kanwal Rekhi School of Information Technology, Indian Institute of Technology, Mumbai



Dr. Hari. V. Sahasrabuddhe is a retired Professor of Computer science. During his talk, he talked about the awareness that people in this AI world should have and connected it to an occurrence that happened prior to Indian independence when the British gave away free samples of tea, which led to the current state of Indians being victims of tea. He emphasised on using AI precisely and warned about its fishhook. He brought out the need to use technology and AI with human intellect during the session. There were also some interesting ideas discussed during the session. Dr. Hari V. Sahasrabuddhe spoke during the workshop how learning occurs naturally in humans and how individual differences result in adaptability. The session also aided the participants' understanding of how the world is always changing and how teachers should adjust their methods to reflect these changes. Dr. Hari V. Sahasrabuddhe engaged the participants in an engaging discussion by providing numerous instances and analogies. To conclude he emphasized that the future of learning should be updated with current evolution and technologies of the world

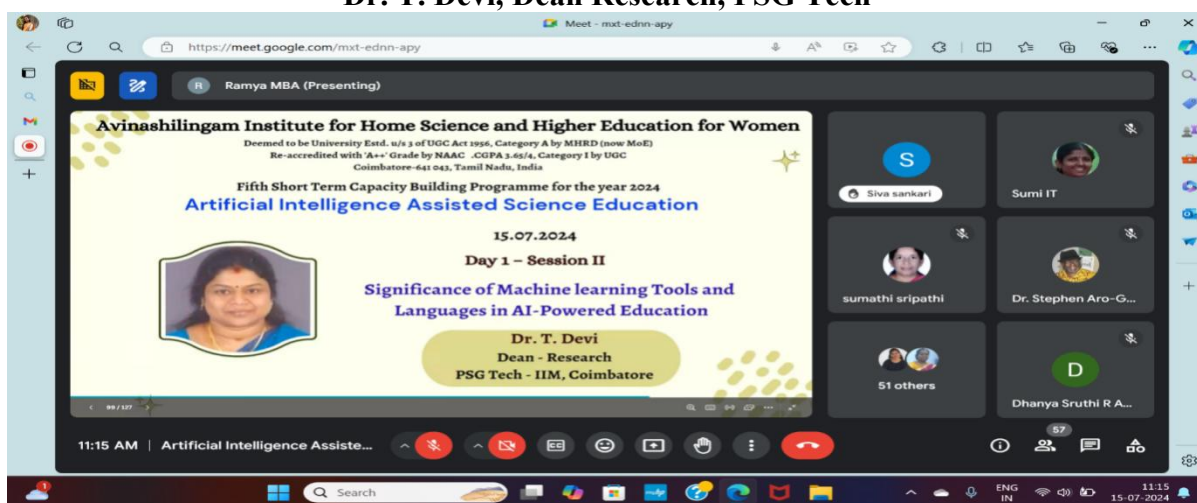
Take away from the session:

- In his inaugural speech, Sir stated that educators must constantly learn new material and impart it to their students.

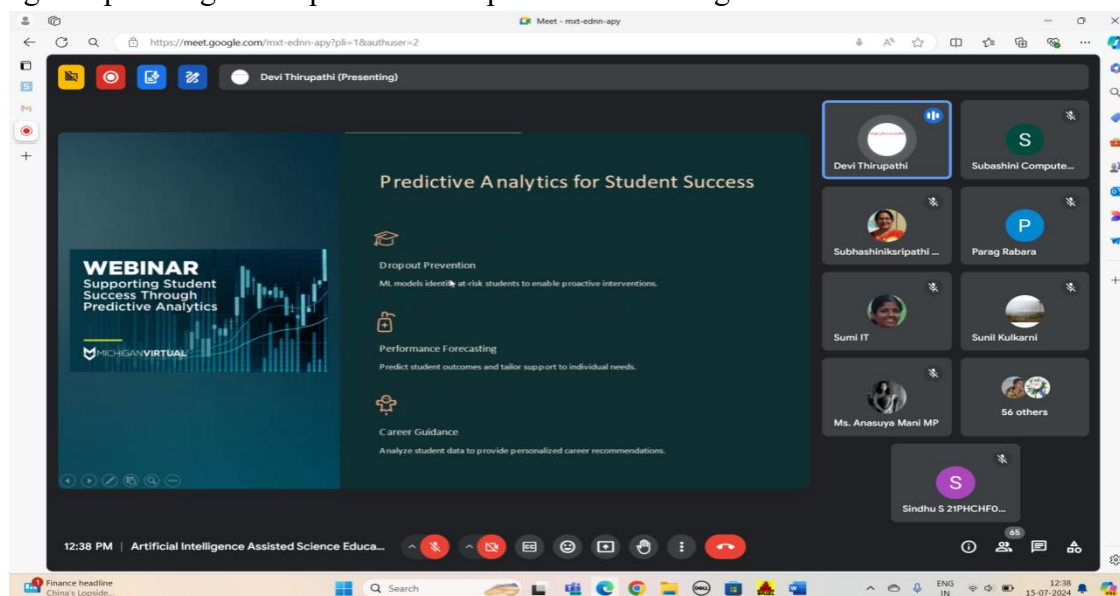
Day 1: 15.07.2024 Session 2

Significance of Machine Learning tools and languages in AI-powered education

Dr. T. Devi, Dean Research, PSG Tech



Dr. Devi highlighted on industry 4.0 and expounded on the use of transformational digital technologies to disrupt education. She gave a quick discussion of deep learning, reinforcement learning, and machine learning. She emphasized on the role of Machine Learning in AI- powered education. The expansion of acronym VUCA (volatile, uncertain, complex, and ambiguous) was briefed by her. She elaborated on popular machine learning tools and languages such as python, tensorflow, Pytorch and artificial modelling capabilities. The challenges in implementing Machine Learning in Education are data privacy, interpretability and teacher training. She also gave a briefing on upcoming developments in AI-powered schooling.



Take away from the session:

- Understanding the role of Machine Learning in AI – powered education
- Advantages of Machine Learning in education
- Art of personalized learning with Machine Learning
- Holistic approach to improve education system with Machine learning

Day 1: 15.07.2024 Session 3

Artificial Intelligence in Chemistry: Current Landscape and Future Opportunities

Dr. V. Rajapandian, Assistant Professor,

Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore

The seminar began with an engaging story from Dr. V. Rajapandian sir, which focused on the idea that in the right situation, our experiences, talents, and knowledge may be valuable, and that a person's work is valued wherever it is directed. He briefed on classical and quantum mechanical methods in computational chemistry, explained about semiempirical, density functional and *ab initio* methods. He also elaborated about the evolution of 5G from 1G since the year 1979 and the evolution of AI since the year 1950. Sir explained about basics of AI, its trends from 2018 to 2060 where super intelligent AI will be developed. Discussing about use of AI in chemistry he spoke about the high throughput experimentation, deep learning based inverse design model for intelligent discovery of organic molecules, graph convolution neural network model for the prediction of chemical reactivity, use of deep reinforcement learning to optimize chemical reactions and future advances such as molecular editing and machine learning.

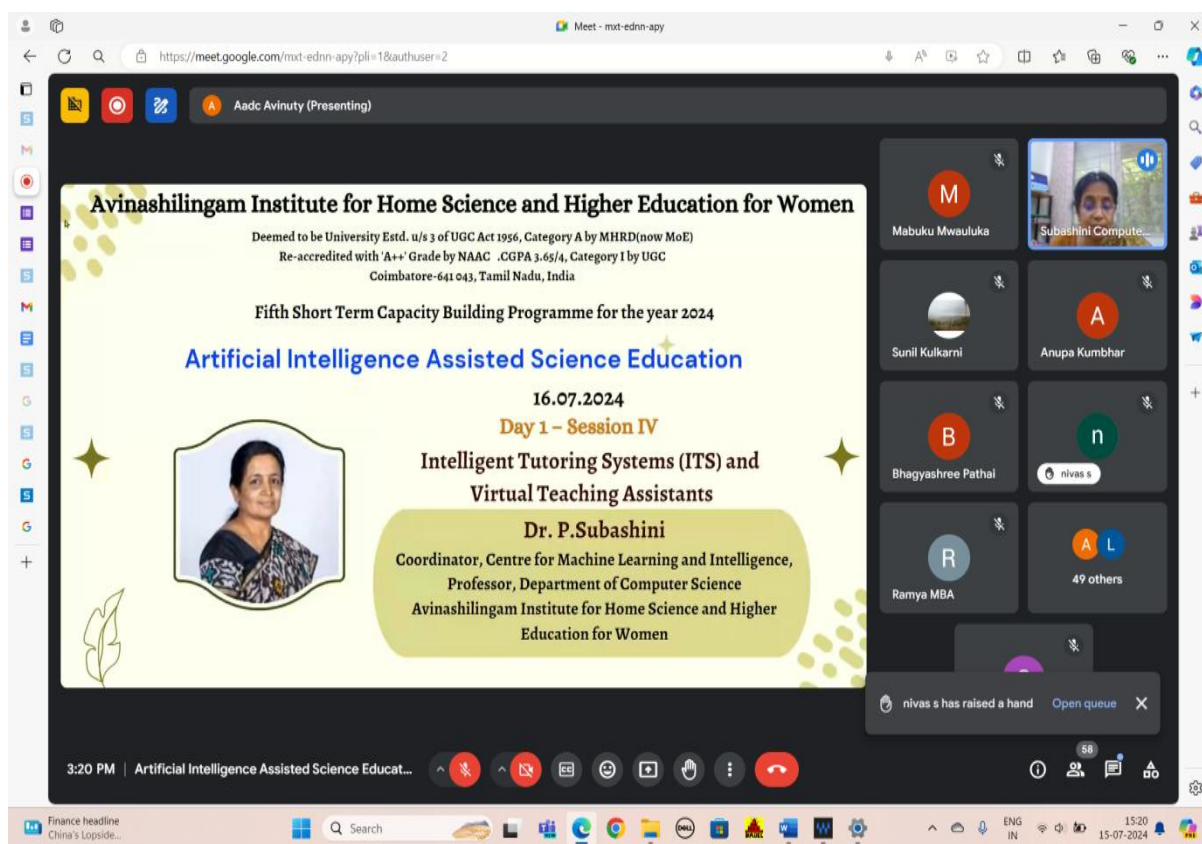
Take Away from the session:

- History of evolution of 5G
- Trends in Artificial Intelligence
- Influential AI-based technologies in chemical research
- Machine learning resources and tools
- Optimizing chemical reactions with deep learning

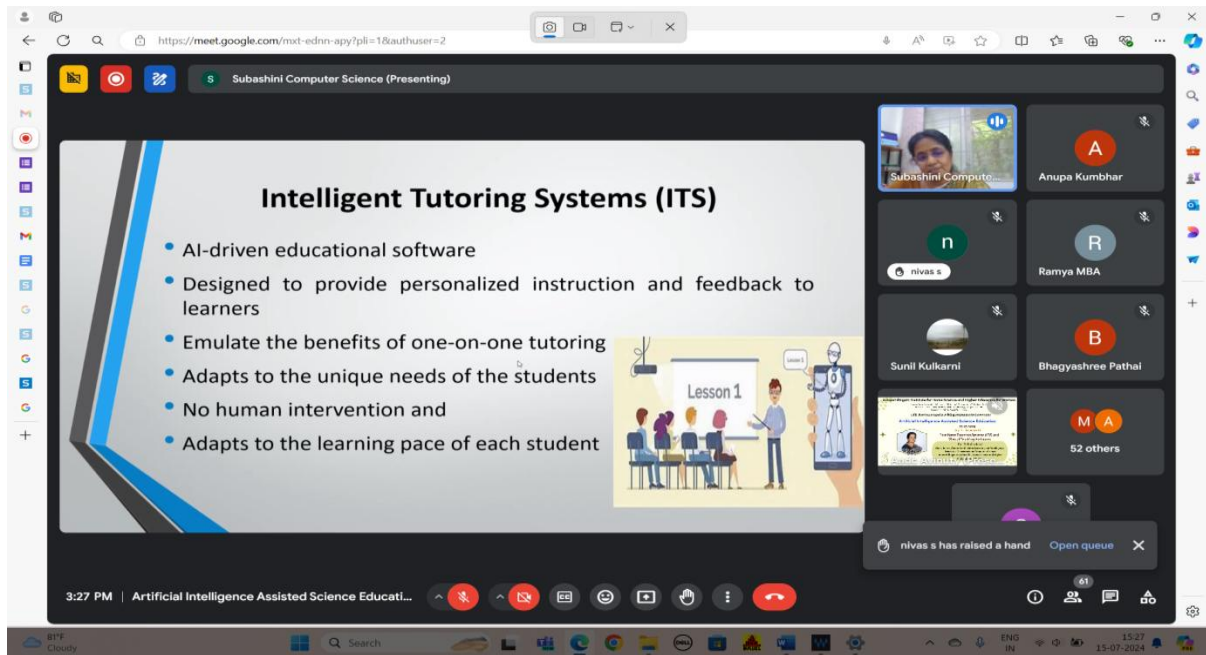
Day 1: 15.07.2024 Session 4

‘Intelligent tutoring Systems (ITS) and Virtual Teaching Assistants’

Dr. P. Subhashini, Professor, Avinashilingam Institute of home science and higher education for women, Coordinator, Centre for Machine Learning and Intelligence



The importance of the intelligent tutoring systems (ITS) and virtual teaching assistants (VTA) was highlighted by Prof. P.Subhashini. She discussed on the key components and working of ITS and benefits such as personalized learning, scalability and data-driven insights. Free and open-source intelligent tutoring systems such as ASSISTments, KaLi, AutoTutor and SMARTS were briefed by mam. She elaborated about the meaning of VTA, its functions and benefits of using it, while explaining about its working she said that VTA uses natural language processing, machine learning, automation and integration (learning management system). She stated efficiency, accessibility and enhanced learning are the benefits of a virtual teaching assistant. Jill Watson and IBM Watson tutor are examples stated by madam for virtual teaching assistant. Free VTA tools such as Edmodo, moodle, google classroom, Microsoft teams for education, canvas network, otter.ai, coursera for campus and Khan academy were also familiarized by her.

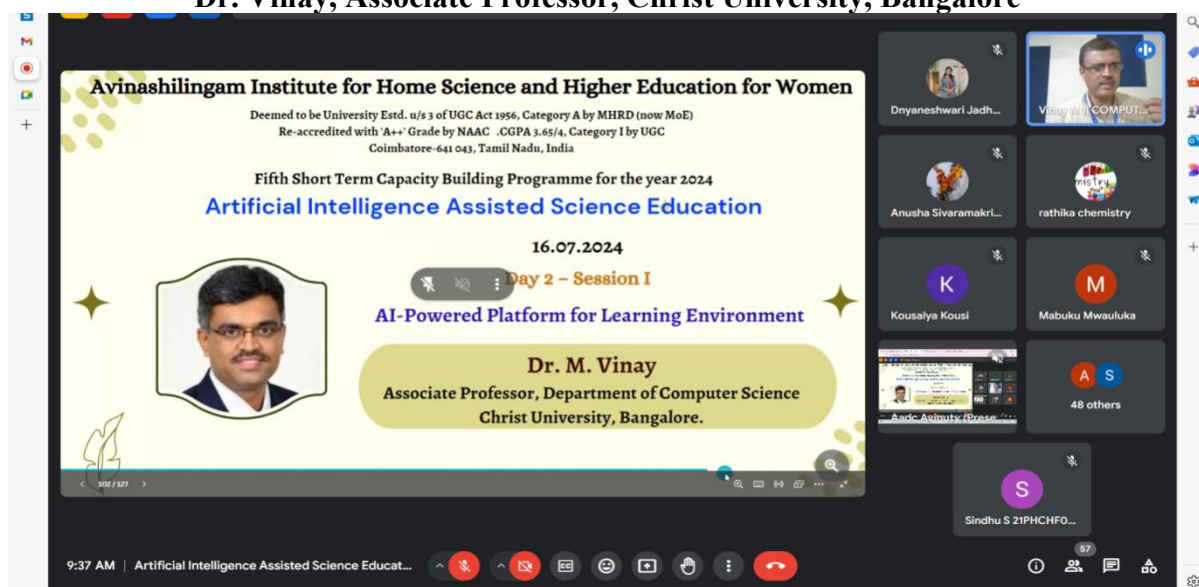


Take Away from the session:

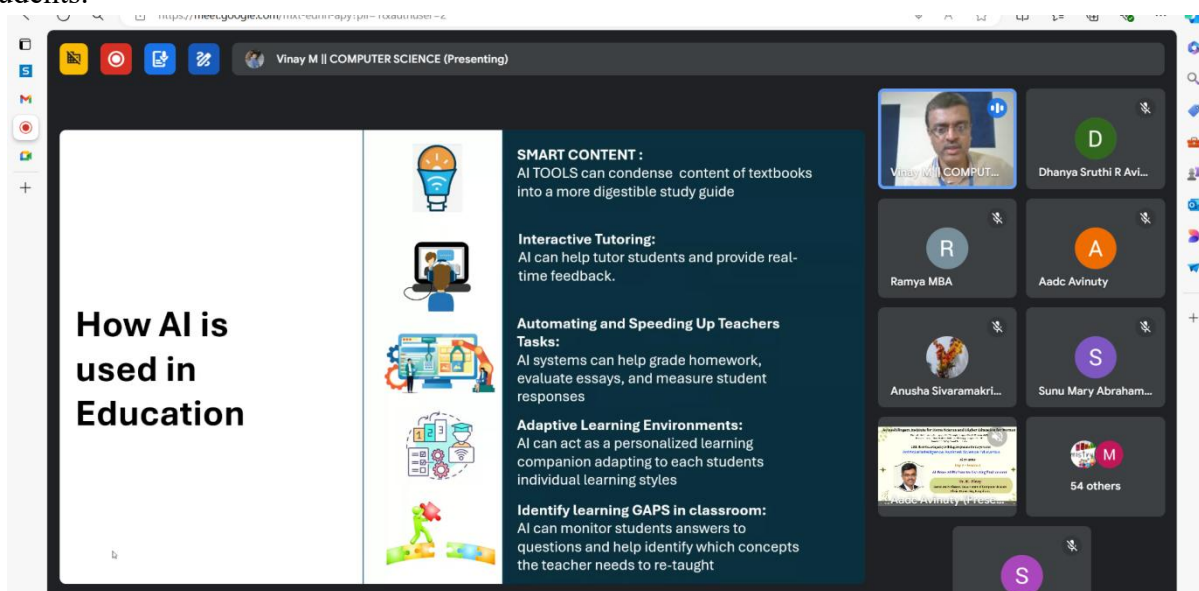
- ✚ ITS and VTA's revolutionizes education as they provide personalized, scalable and efficient learning solutions.
- ✚ Free and open ITS
 - a. ASSISTments
 - b. KaLi
 - c. AutoTutor
 - d. SMARTS
- ✚ Free VTAs
 - a. Edmodo
 - b. Moodle
 - c. Google classroom
 - d. Microsoft Teams for Education
 - e. Canvas Network
 - f. Otter.ai
 - g. Coursera for campus
 - h. Khan Academy

Day 2: 16.07.2024 Session 1

AI-powered platform for learning environment
Dr. Vinay, Associate Professor, Christ University, Bangalore



The session started with a brief explanation about artificial intelligence, machine learning and deep learning. Dr. Vinay explained on types of AI, need for AI and importance of AI in education. Evolution of AI- powered learning platforms and global AI in education market since 2016 was elaborately discussed by him. He gave an exhaustive demonstration on AI powered tools for teaching and learning such as, Gimkit, Whimsical and Genially. Dr. Vinay said by embracing AI, a teacher can create a more engaging and effective learning experience for all students.



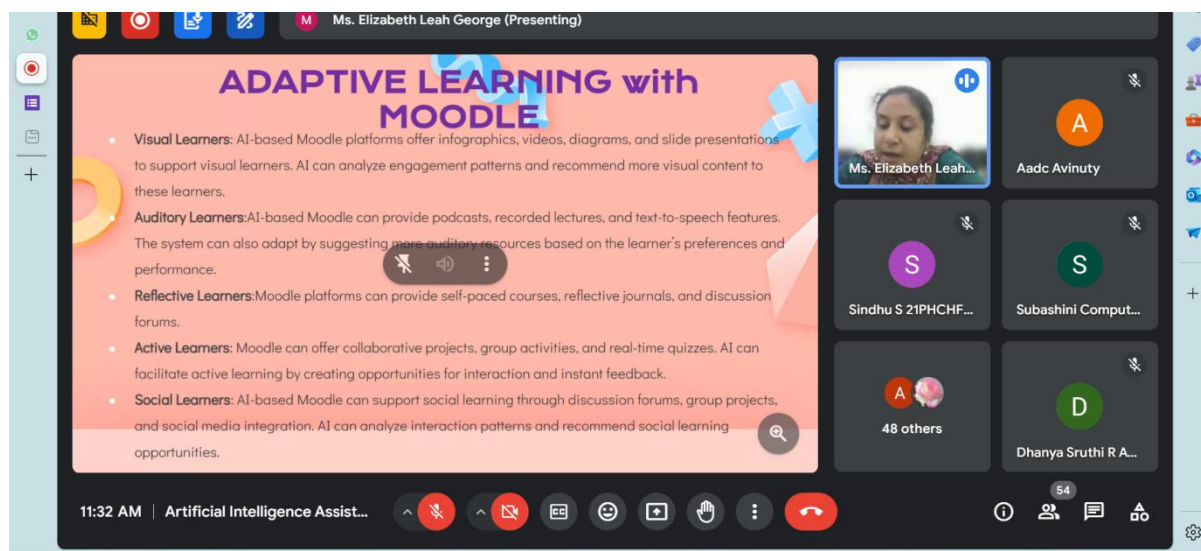
Take away from the session:

- Adaptability towards AI powered learning platforms
- AI-powered learning platforms can enhance engagement, improve student outcomes and provide valuable data-driven insights.
- Versatility in smart content creation tools for teaching using AI such as; Gameshow (quizzes), gimkit (quizzes), whimsical (images and flow chart maker), coggle.it (for mind map generation) and genially (designing pictures and templates) software.

Day 2: 16.07.2024 Session 2

Integration of AI with Moodle Learning Environment

Mrs. Elizabeth Leah George, Assistant Professor, Nagindas Khandwala College Mumbai

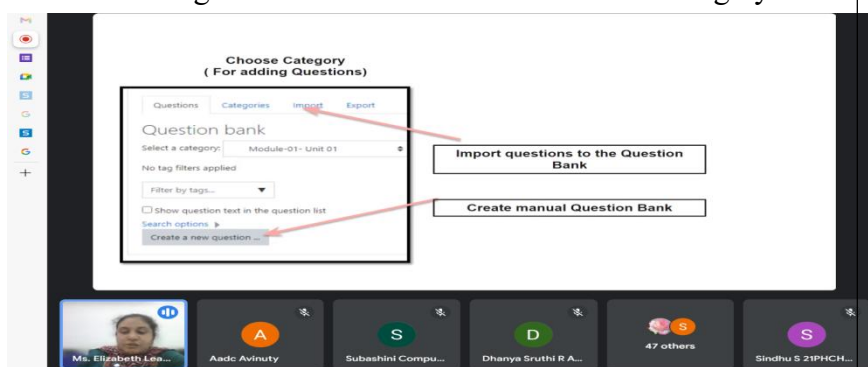


A comprehensive demonstration of Moodle e-learning platform and adaptive learning with Moodle was presented by Mrs. Elizabeth Leah George, She also discussed about hardware requirements of Moodle.

Adaptive features of Moodle explained by her are:

- AI connector
- Open AI ChatBlock
- Open AI question generator
- AI text to questions generator
- Compilatio plagiarism and AI content detector
- Copyleaks plagiarism and AI content detector
- X-5- Moodle
- IntelliBoard

Using Moodle, an open-source learning management system (LMS) helps educators create and manage online courses. It provides a platform for teachers to upload course materials, create quizzes, assignments, and facilitate discussions through forums and chat rooms. Moodle is highly customizable, allowing users to extend its functionality with plugins and themes, making it adaptable for different educational needs, whether in schools, universities, or corporate training. Its user-friendly interface and collaborative tools help enhance the learning experience by promoting interaction between students and instructors.



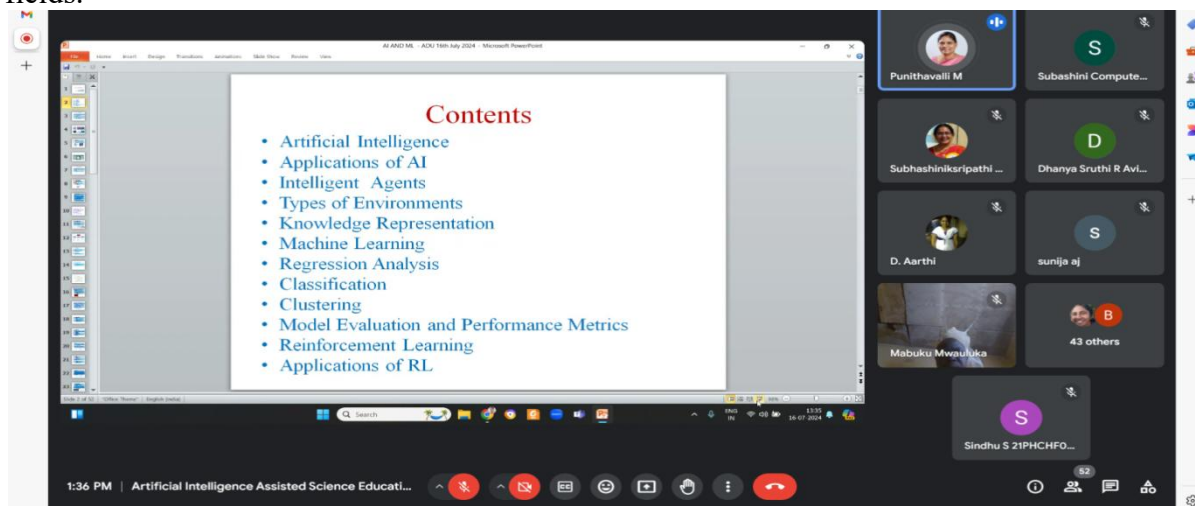
Take away from the session:

- Demo of Moodle platform for adaptive learning
- Moodle tool and its features

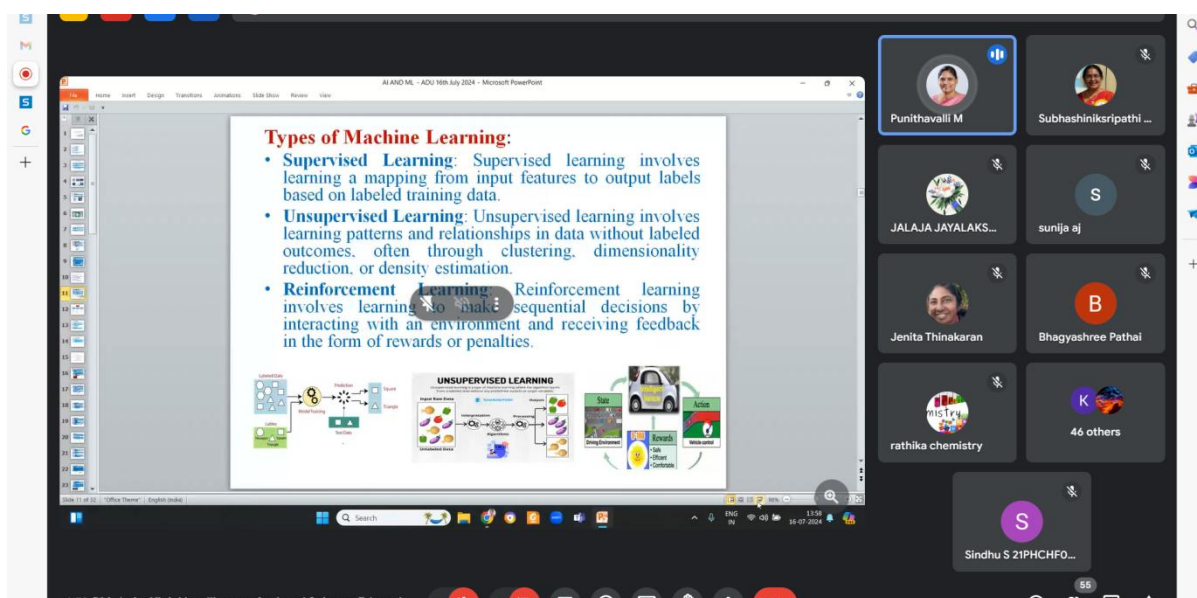
Day 2: 16.07.2024 Session 3

‘Deep Learning and Pattern Recognition’
Dr. M. Punithavalli, Professor and Head
Department of Computer Applications, Bharathiar University

Dr. Punithavalli touched upon the basic concepts of artificial intelligence and explained about sub fields of AI such as robotics, computer vision, embedded AI, control system, natural language processing and machine learning. The speaker discussed application of AI in various fields.



Machine learning (ML), a branch of AI was elaborately explained by the speaker by stating the steps in ML, its types: Supervised learning, unsupervised learning and reinforcement learning. Regression analysis pertaining to supervised learning was explained in detail by the speaker.



Take away from the session:

- ✚ Understanding basic concepts of Artificial Intelligence and its applications in environmental monitoring.
- ✚ Differentiating about types of Machine learning: Supervised learning, Unsupervised learning and Reinforcement learning

Day 2: 16.07.2024 Session 4

'Virtual Reality and Augmented Reality Tools for Immersive Learning Experience in Science'

Dr. K. Thiyaagu, Assistant Professor, Central University of Kerala,
Kasargod



Dr Thiagu provided a demonstration of various augmented reality tools such as Animal 4D cards, AR loopa, Space craft AR and anatomy AR 4D. Explained on location-based AR, Superimposition AR, Projection based AR. He listed the applications of AR such as Quiver, elements 4D, blippar, star walk, spacecraft AR and explained that AR in education can

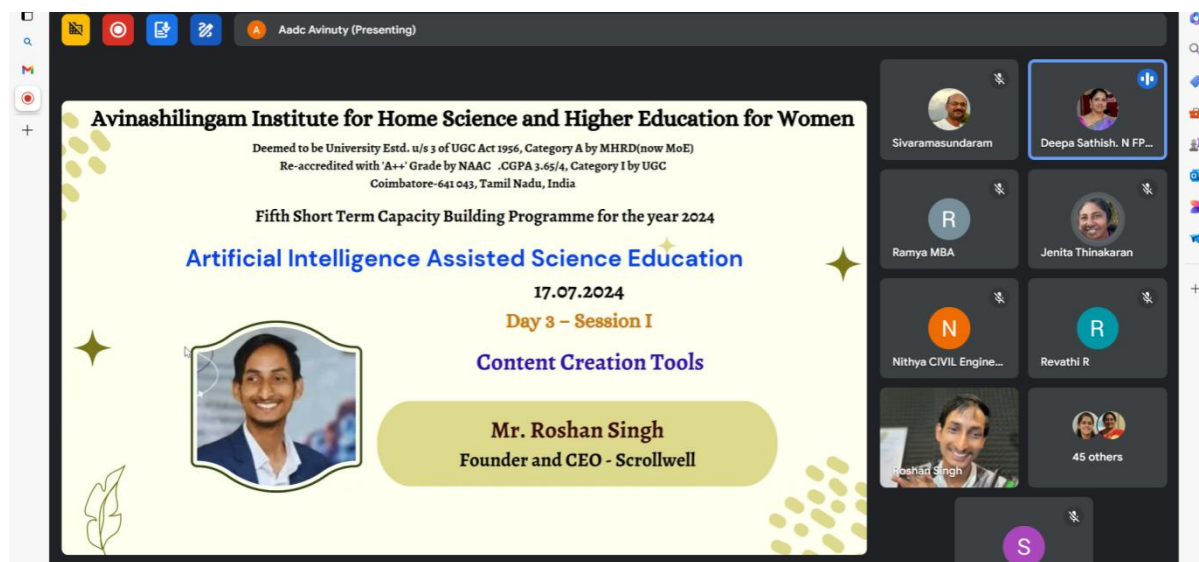
- ✚ Increase content understanding
- ✚ Aid in Long-term memory retention
- ✚ Improve activity performance
- ✚ Improve collaboration
- ✚ Increase pupil motivation

Takeaway from the session:

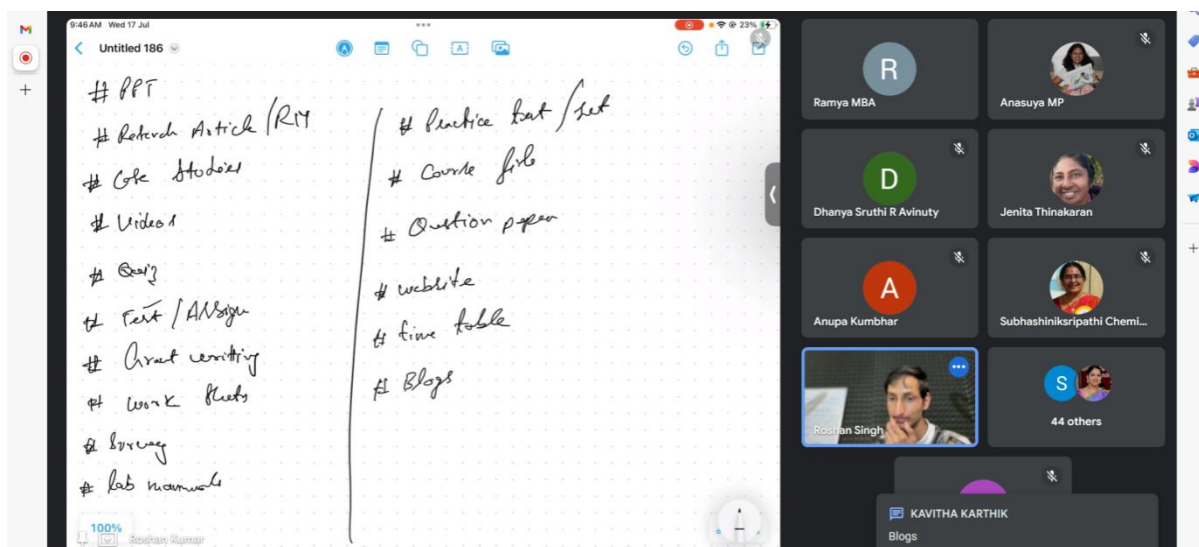
- ✚ Understanding the importance of Augmented reality
- ✚ Introduction to various augmented reality tools

Day 3:17.07.2024 Session 1

‘AI Assisted Content Creation Tools’ Mr. Roshan Singh, Scrollwell, Noida



Mr. Roshan Singh of Scrollwell commenced the session by holding a quick fire round asking the attendees to mention their expectations of the session and the listed the topics subjects that will be covered. Since the majority of participants requested for multiple kinds of content creation, he described a one-stop shop for content creation that focuses just on conversation chat GPT and several ways of prompting it exclusively. Additionally, he gave a thorough demonstration of AI assisted Microsoft PowerPoint, Canva, and Slides. Microsoft PowerPoint, that help users to make, customise, and present slideshows. Canva Magic Slides design suite tool from Canva provides an easy-to-use interface for making eye-catching presentations. It offers an extensive collection of templates, graphics, and design components together with AI-driven tools that can produce slide layouts on their own. Canva is liked for its creative versatility and user-friendliness, appealing to both novices and experts alike. SlidesGo provides a range of premium and free Google Slides and PowerPoint templates. Professionally created slides from SlidesGo can be altered to meet a range of presentation requirements, from business to education. It's a useful tool for adding polished, thematic designs to presentations rapidly. In addition, Mr. Roshan provided an introduction to the Free Humanise AI text software and recommended the website "THERE'S AN AI FOR THAT" to locate the most appropriate AI solutions for our requirements.

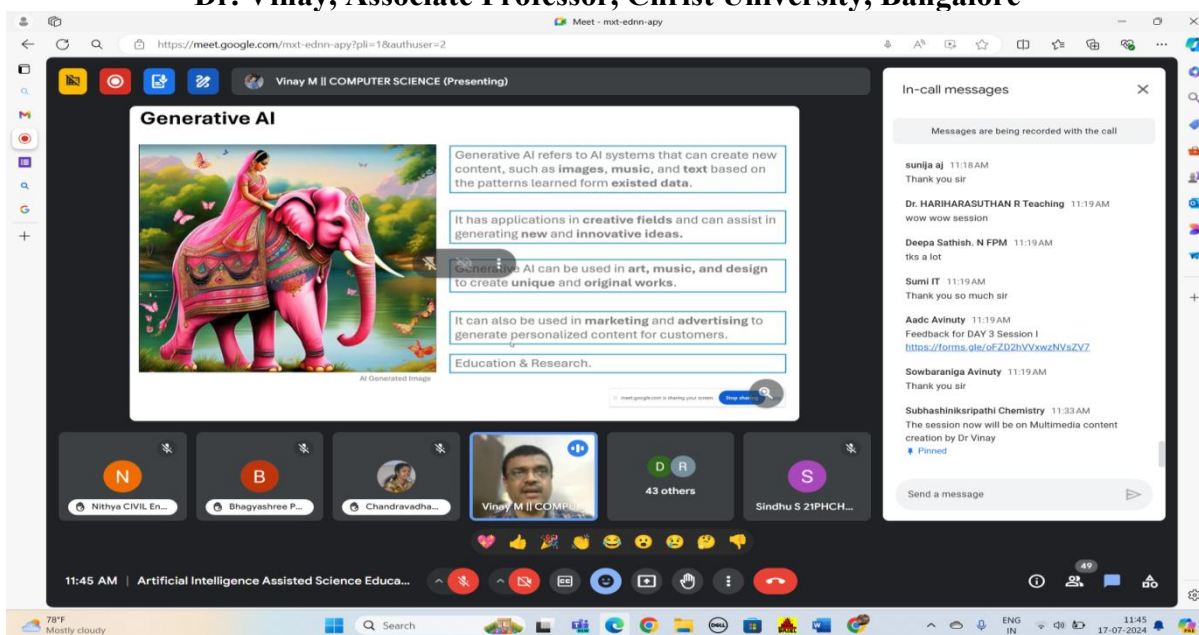


Take away from the session:

- Understanding on vast usage of ChatGPT, tips and tricks of its prompting.
- Learning to create ppt using canva, ms ppt online, which suggest slides according to the content and slides go
- Awareness about incognito mode in google chrome.

Day 3: 17.07.2024 Session 2

‘Multimedia content creation – Video and Audio Production, Image and Graphic Design’ Dr. Vinay, Associate Professor, Christ University, Bangalore

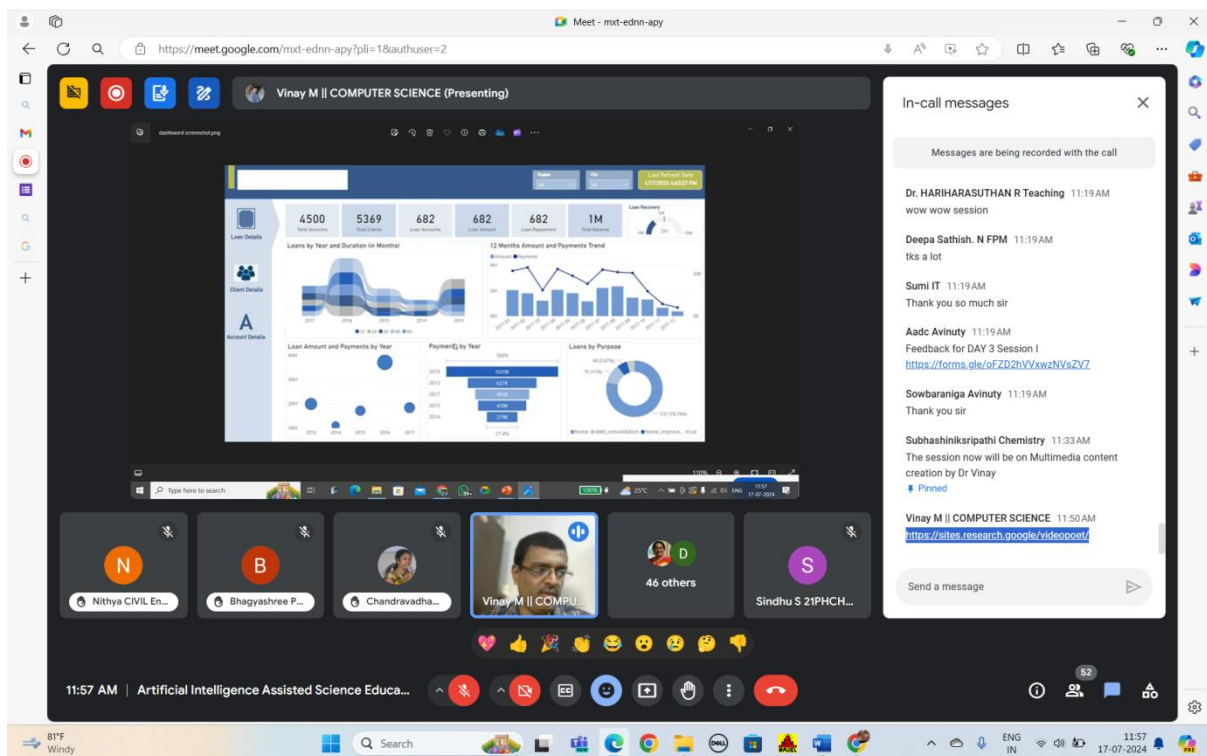


The session started with a brief introduction to generative AI. Generative AI refers to a class of artificial intelligence models that can create new data similar to the data on which they were trained. This can include text, images, music, code, and other types of content. Unlike traditional AI, which is designed to recognize patterns or make decisions based on existing data, generative AI can produce original content. Dr Vinay explained about text generation AI applications such as Claude, Gemini, Copilot and ChatGPT the advanced AI models designed for natural language understanding and generation, each with unique features and applications. The session was followed by explanation on prompting and he said that an ideal prompt should comprise of 21 words which should include:

1. Persona

2. Task
3. Context
4. Format

Further Dr Vinay gave a rapid demonstration on various audio and video generative applications. **Narakeet** is a tool for creating videos with text-to-speech narration; **Adobe Firefly** offers AI-powered creative tools for generating and editing images; **Freepik** provides a vast library of free and premium design resources; **Pixlr** is an online photo editor offering quick and advanced editing features; **ElevenLabs** specializes in AI-generated lifelike voice synthesis; **Dubverse** provides AI-powered video dubbing and subtitling; **Soundraw** enables AI-generated custom music compositions; **Natural Reader** converts text into speech for accessible reading; **Designs.ai Video Maker** automates video creation with AI; **Elai** is an AI platform for creating personalized video content; **Meta AI** focuses on developing advanced AI research and tools, and **Miro** is a collaborative online whiteboard platform for team brainstorming and planning.



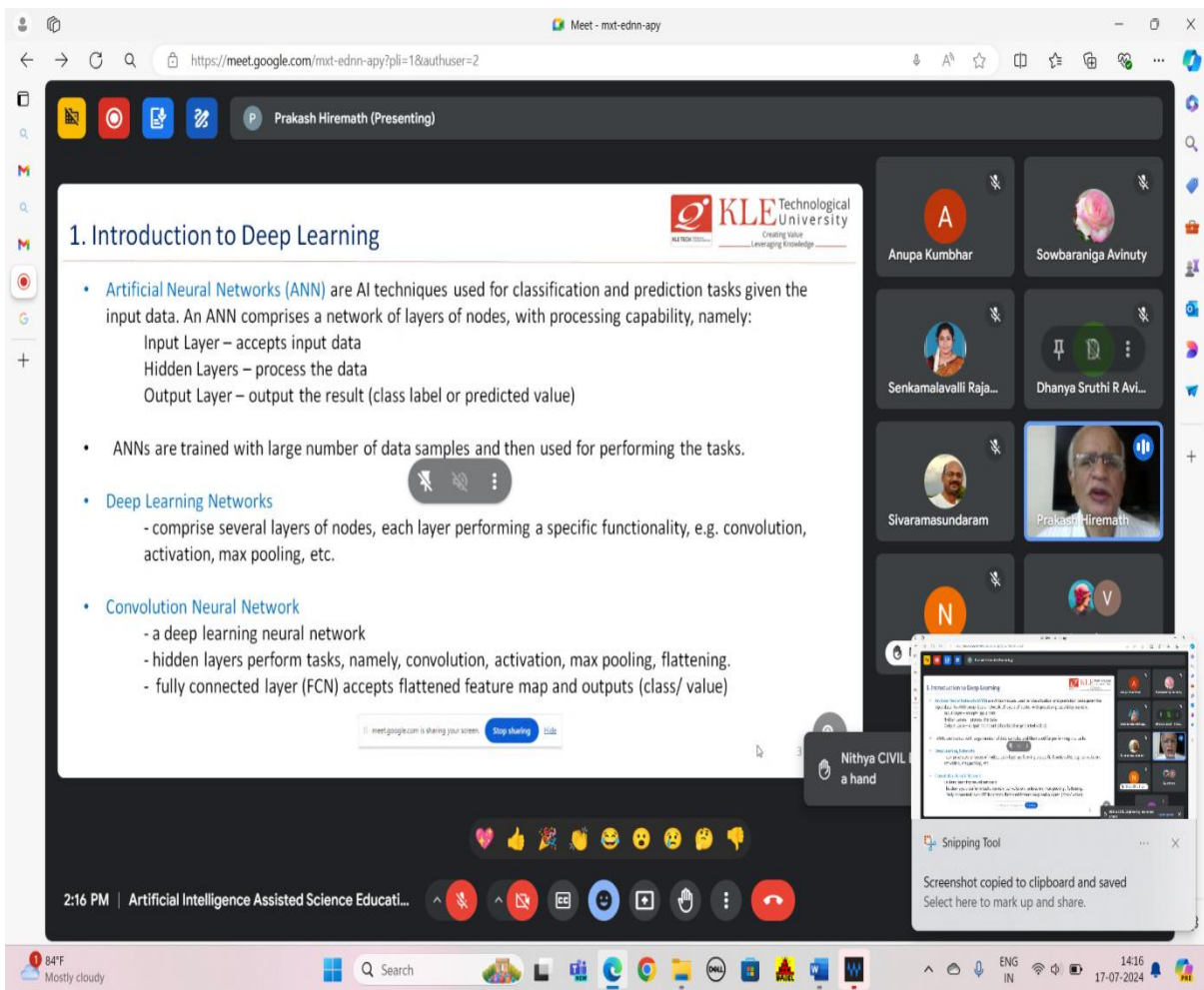
Take Away from the session:

- Aspects of generative AI
- Demonstration of generative AI platforms for creating image, audio effects and videos using adobe firefly, freepik, pixlr, IIElevenLabs, Dubverse, soundraw, natural reader, designs video maker, elai, meta- AI, narakeet and miro
- Explanation about prompt engineering

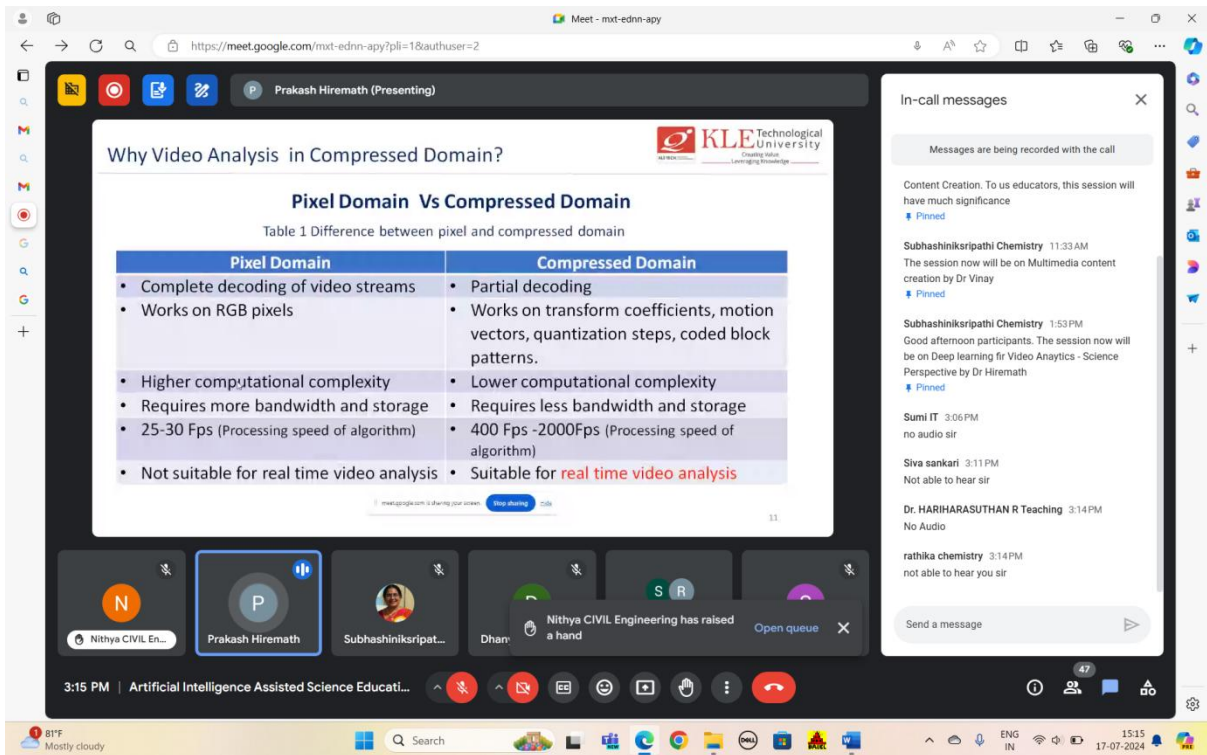
Day 3: 17.07.2024 Session 3

‘Deep Learning for Video Analytics –Science Perspectives’

Dr. P.R Hiremath, Professor, KLE Technological university, Hubballi, Karnataka



Dr. Hiremath started the session with a discussion on deep learning. He explained about generative AI models for text, image, audio generations, multi and diffusion models. Hugging face, an open-source platform for experimenting Gen AI. He elaborately discussed about the Gen AI in sports science, in sports science, generative AI is being used to enhance performance analysis, injury prevention, and training strategies. By creating simulated data, such as virtual athletes or predictive scenarios, generative AI can model complex biomechanical movements, optimize training routines, and predict potential injuries. This technology also enables the generation of personalized training programs by analysing individual athlete data, leading to more tailored and effective interventions. Additionally, generative AI helps in visualizing game strategies and outcomes, offering coaches and players new insights into performance improvements. Further in the session sir explained the differences in pixel and compressed domain, video analysis for action recognition. The theory behind human action recognition in a compressed video, stages in action identification (action recognition and data association) is clearly explained by the speaker.



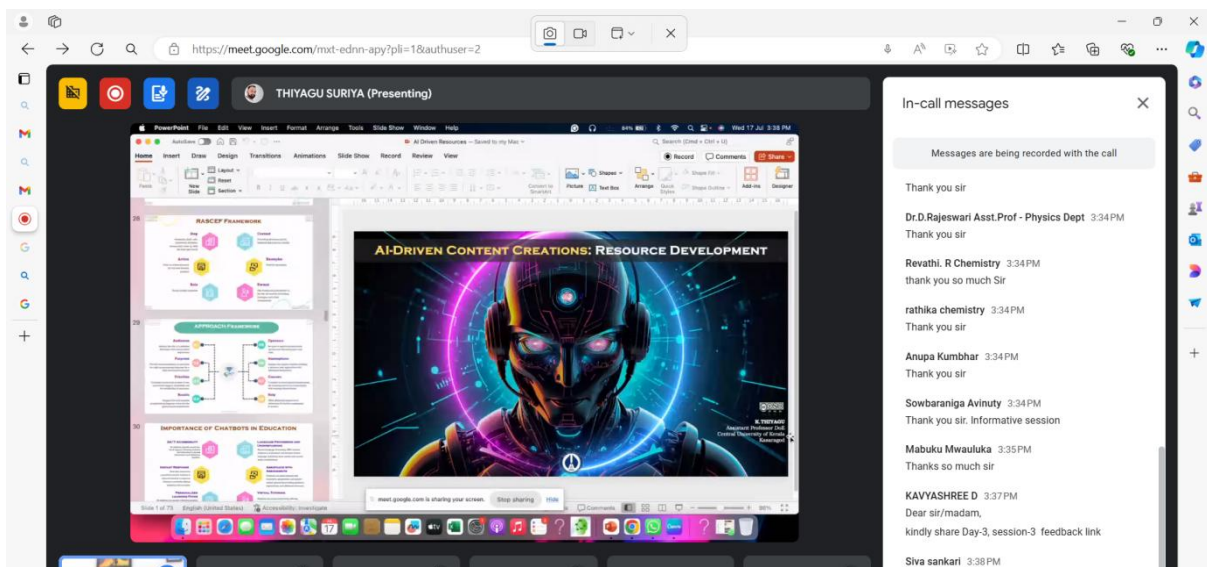
Take Away from the session:

- Understanding about Artificial neural networks-Deep learning networks-convolution networks
- Generative AI Models such as; GPT- 4, ChatGPT for text generation, DALL- E2, Stylegan2 for image generation and BigGAN for image generation, Jukedeck and Juke box for audio generation, GitHub Copilot, OpenAI Codex, Intellicode for code synthesis, Adobe firefly and MidJourney for image synthesis.
- Compressed domain in video analysis

Day 3: 17.07.2024 Session 4

'Hands-on Training on Content Creation using AI'

Dr. K. Thiyaagu, Assistant Professor, Central university of Kerala, Kasargod

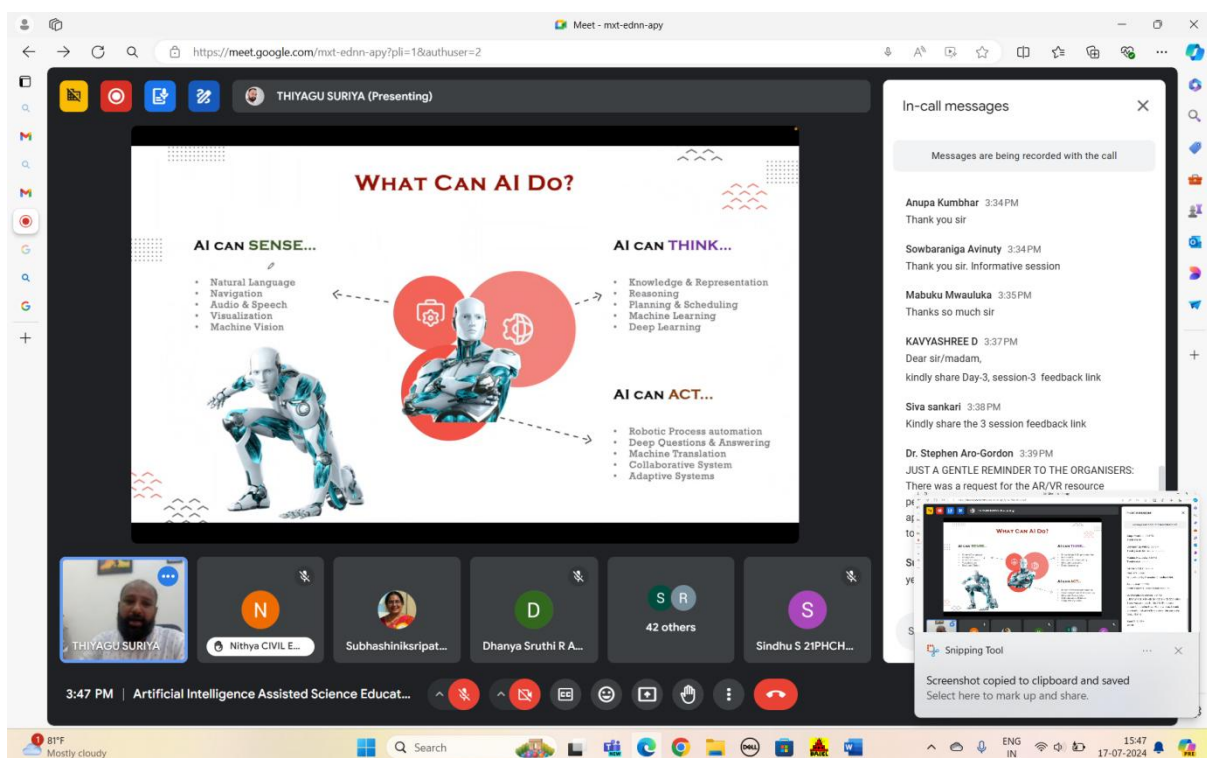


Dr. K. Thiyagu started the session by explaining generative and predictive AI and explained that its applications are the one which is used by end users. Such tools are used in text generation, image generation, music generation, video generation and speech synthesis models. Sir explained about Generative AI in the aspects of

- ✓ Text Generation – ChatGPT
- ✓ Image Generation – DALL-E
- ✓ Music Generation – MuseNet, Semiconductor
- ✓ Video Generation – VQ-VAE-2
- ✓ Speech Generation – TTS Text to Speech

He gave an eye-opening explanation on art of prompting, its types and taught the participants on how to use a prompt to get good AI generated out and explained the types of prompting as zero-shot, one-shot, few shot and chain prompting. Speaker explained the GIGO principle, which stands for "Garbage In, Garbage Out," is a concept in computing and artificial intelligence that emphasizes the importance of input quality. Sir also discussed about the RTA (Role, Task and format) and TAG (Task, action and Goal) framework in the context of AI generative tools. He emphasized many applications of AI in education (Smart content, Personalized learning, Adaptive learning, Data Accumulation, Virtual Facilitator, Automated Grader, Chat Campus, Pictoring)

Sir explained about various content creation tools such as presentation makers (Gamma App, SlidesPlot, Magic Slides, slidesgo) and demonstrated autodraw and lalamu. He elaborated on Predictive AI, AI Presentation markers such as AI boards (AutoDraw, Gamma App, Slidesgo), AI Image markers (Adobe Firefly). **Gamma app** is a tool for creating visually appealing presentations and reports with AI-powered design suggestions, **Tome app** is a platform for building and sharing interactive documents and presentations with a focus on collaboration, and **SlidesPilot** offers AI-assisted presentation design and content generation to enhance slide creation and visual storytelling. Finally concluded with a message that Humans are Hooked but Machines are Learning, therefore humans should understand that AI is a tool and not a solution.

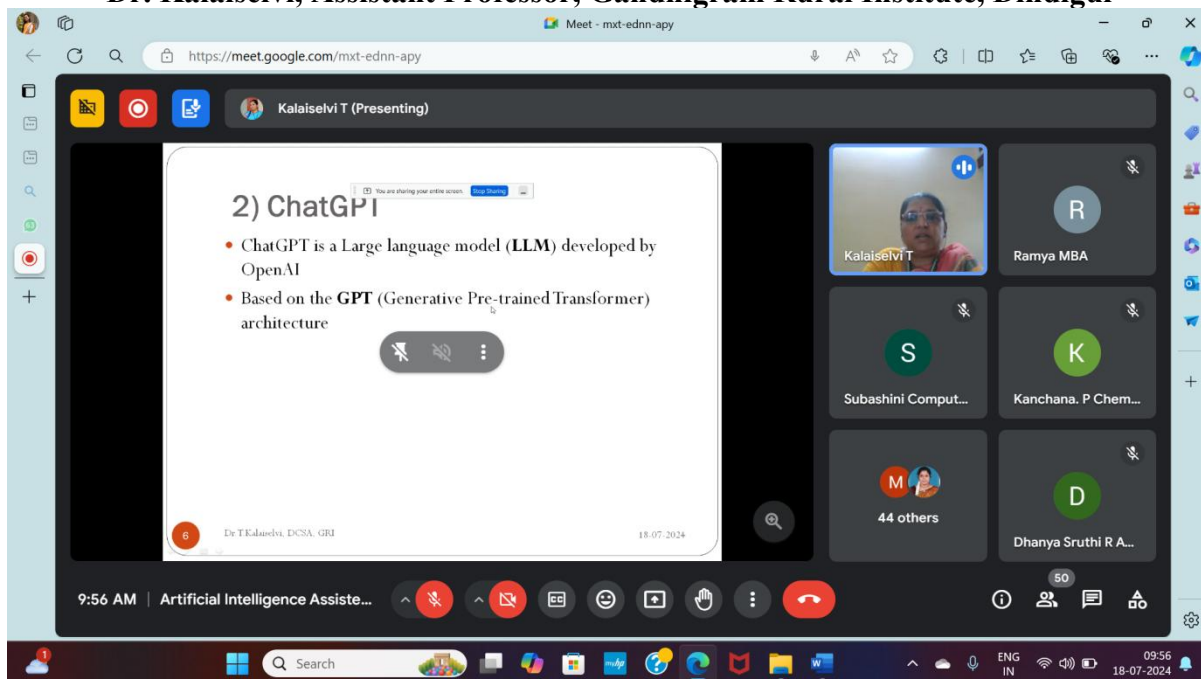


Take Away from the session:

- GIGO principle, RTA and TAG formats
- Demonstration of AI presentation makers
- Importance of prompting technique

Day 4: 18.07.2024 Session 1

‘AI Powered Feedback Tools for Language, Grammar and Plagiarism’ Dr. Kalaiselvi, Assistant Professor, Gandhigram Rural Institute, Dindigul



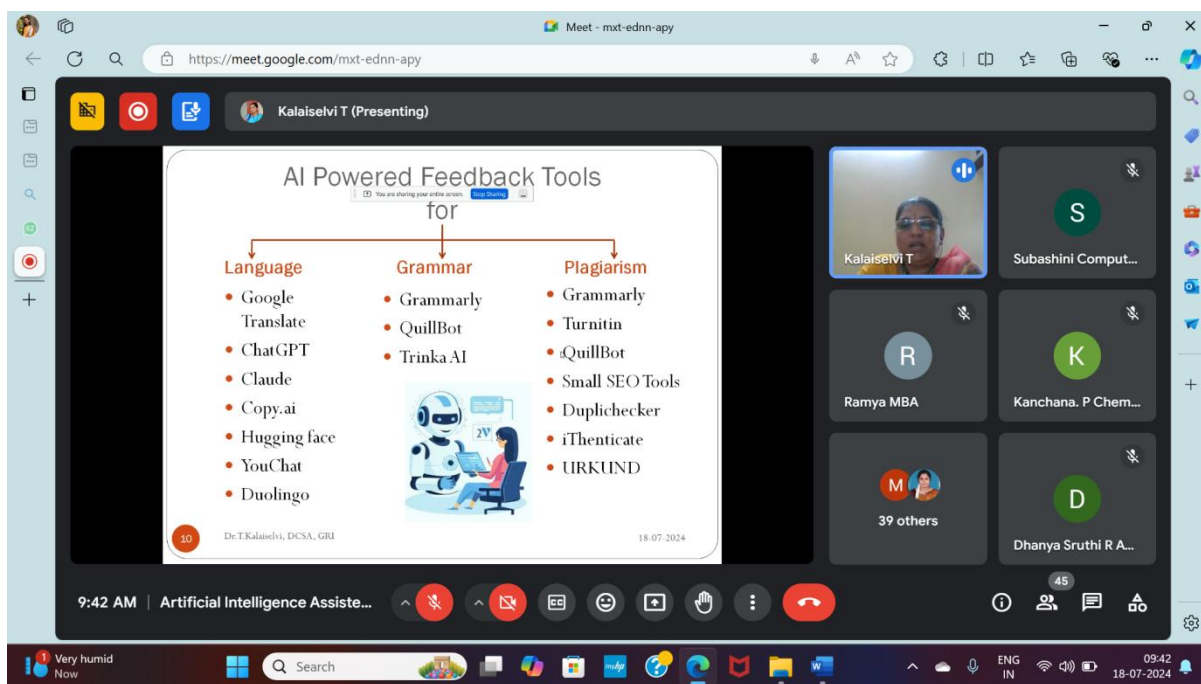
The session began with an explanation of AI-powered feedback systems by Dr. Kalaiselvi. The speaker divided the AI tools into three categories: Super intelligent AI, general purpose AI, and narrow AI. She went on to identify other resources for language, grammar, and plagiarism. Ma'am gave an explanation of the ChatGPT, including its main features, uses, and versions.

he speaker elaborately explained the key features of it as:

- ✓ Natural Language Processing
- ✓ Conversational Ability
- ✓ Task Versatility
- ✓ Code Generation and Analysis
- ✓ Language Translation
- ✓ Adaptability
- ✓ Continuous Learning
- ✓ Text Completion and Prediction
- ✓ Multi-turn Interactions
- ✓ Customizable Output

The session then continued with exhaustive explanation of language tools such as google translate, claude AI and duolingo. **Google Translate** is a tool that provides real-time translation of text and speech across multiple languages, **Claude AI** is a conversational AI developed to assist with a variety of tasks and answer questions, and **Duolingo** is a language learning app that uses gamified lessons to teach new languages and improve fluency.

Grammar checking tools like grammarly, quillbot and traude AI. **Grammarly** is an AI-powered writing assistant that provides grammar, punctuation, and style suggestions, **QuillBot** is a tool that offers advanced paraphrasing and text rewriting capabilities, and **Traude AI** is a conversational AI platform designed to assist with natural language understanding and generation tasks. The speaker gave an insightfull overview on plagiarism checking detectors such as Grammarly, small SEO tools, duplichecker, plagscsn, quetext and paperRater. **Small SEO Tools** is a suite of tools for analyzing and improving search engine optimization, **Duplichecker** helps detect duplicate content across the web, **Plagscan** provides plagiarism detection and content originality checking, **Quetext** offers plagiarism detection and citation support, and **PaperRater** combines grammar checking, plagiarism detection, and writing suggestions for academic and professional documents. Madam explained about copyscape, GPT zero and writer AI content detector. **Copyscape** is a tool for detecting online content duplication and plagiarism, **GPTZero** is designed to identify text generated by AI models, and **Writer AI Content Detector** helps to distinguish between human-written and AI-generated content for authenticity verification.



Take Away from the session:

- Explanation of ChatGPT, Claude AI, Duolingo, Grammarly, Quill Bot, Trink AI
- In depth understanding of key features of chatGPT
- Understanding broad range of plagiarism checking tools

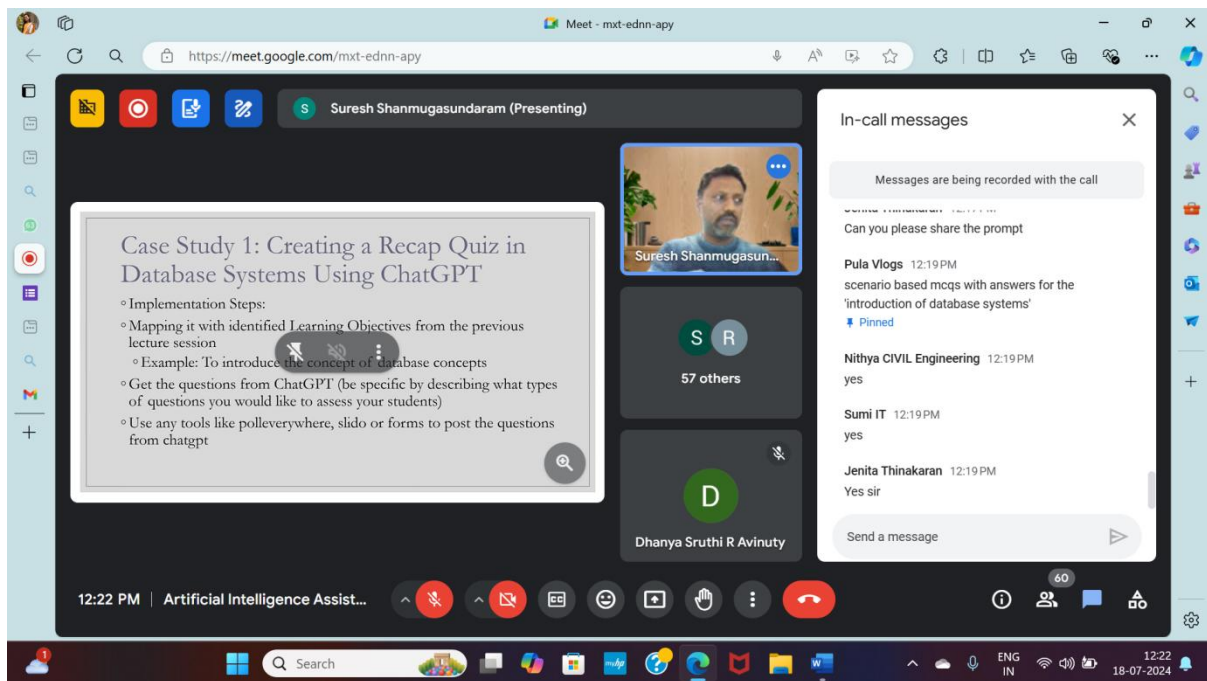
Day 4: 18.07.2024 Session 2

‘AI assisted Tools for Formulating Questions and Quizzes’

Dr. Suresh Shanmugasundaram, Teaching Fellow
College of Science Technocampus, Swansea University



Dr. Suresh Shanmugasundaram spoke on the need for AI in education, its practical limitations and best practices. He explained about AI capabilities as data analysis, pattern recognition, natural language processing and predictive modelling. AI in education can be used for personalized learning, administrative efficiency, enhanced engagement and accessibility. The speaker while discussing about challenges in use of AI in educational setting discussed about Khan academy, Kahoot and Edulastic. **Khan Academy** offers a vast range of free educational resources and interactive lessons across various subjects, **Kahoot** provides a platform for creating and playing interactive quizzes and games for learning, and **Edulastic** is an online assessment tool that enables teachers to create, administer, and analyze formative and summative assessments. In case study 1, the speaker explained on how to create a recap quiz in database systems using ChatGPT, it involves generating questions and answers based on key concepts and topics from database systems, such as SQL, normalization, and schema design, to reinforce learning and assess understanding. Further discussed about creating a recap quiz using Microsoft Forms, which involves designing a set of questions to review key concepts, distributing the form to participants, and using the built-in analytics to assess understanding and gather feedback. Sir discussed certain best practices such as human oversight, using diverse prompts, supplementing with expert inputs, bias checking, following student-centric approach as needed to mitigate limitations in AI generated content. The session followed with explanation of quizlet, an online learning platform that allows users to create and study digital flashcards, practice quizzes, and other interactive study tools.



Take Away from the session:

- Understanding the importance of AI in formulating quizzes, assignments and questions and also the factors affecting the same.
- Knowledge on case studies from chatgpt about - “why recap quizzes are beneficial”
- Advantages of recap quiz using Microsoft office forms.

Day 4: 18.07.2024 Session 3

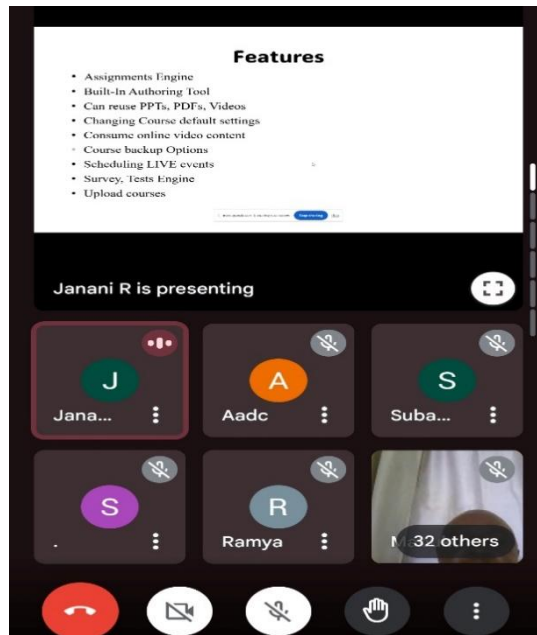
‘AI and Physical Sciences- Demonstration of Edredo’

Dr. P. Subhashini, Professor of Computer Science

Avinashilingam Institute of Home Science And Higher Education for Women.

Dr. P. Subhashini demonstrated about Edredo, an adaptive learning tool, and goes over its features that are helpful for both students and teachers who wish to monitor their progress. Similar to Google Classroom, Edredo is a virtual classroom that may be hosted by businesses or educators. With its features—which include discussion boards, surveys, exams, presentations, and video content—teachers can host online classes, publish videos, and promote student participation. Among the features are an integrated writing tool, options for backing up courses, surveys, and an automated test engine that creates quizzes for students. It is also adaptable, allowing you to modify the course's default settings.

A teacher can use this application to host a course in many classrooms, and students can enrol based on how interested they are in the topic being offered. It will be possible for the instructor to publish quizzes, articles, polls, and videos. In addition, Edredo gives the instructor the ability to keep an eye on how the students are interacting with each other and the various components of the course, such as the quiz results and grades. Edredo offers live online classes in addition to enabling the posting of recordings. This seminar focused on how having lessons online helps instructors better understand how their students behave online, enabling them to customise the curriculum to suit their preferences.



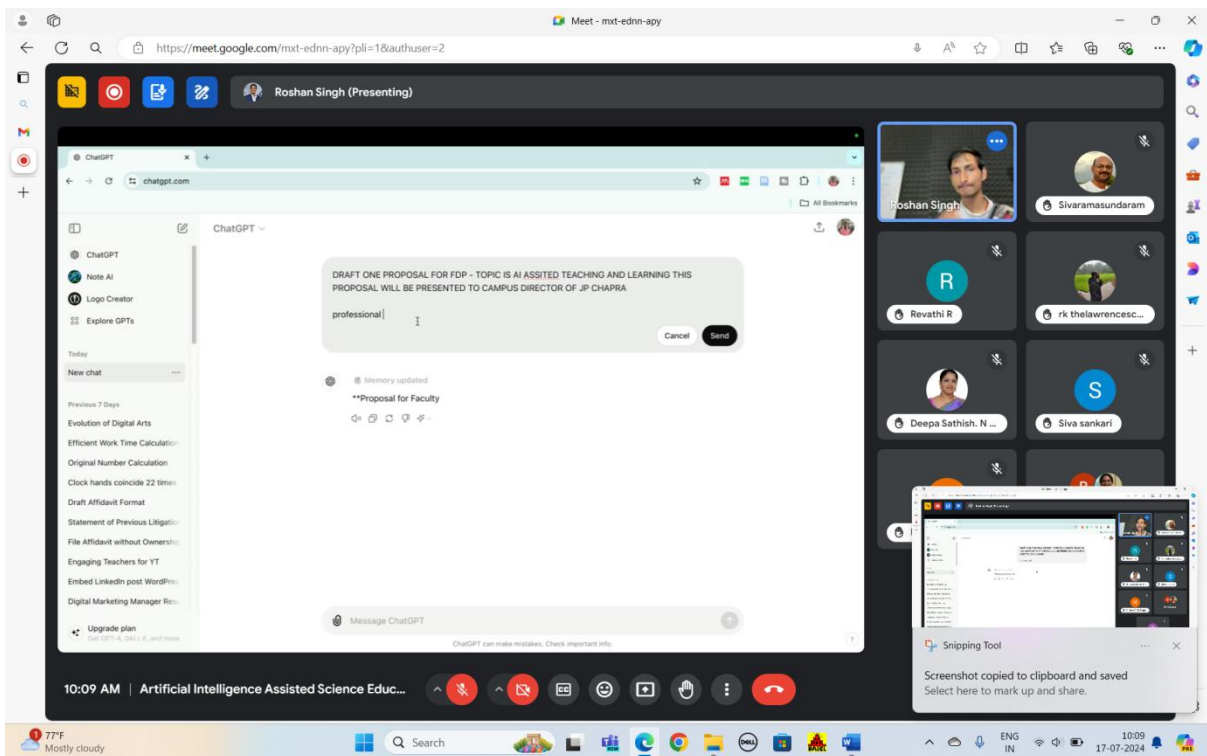
Take away from the session:

- Demo of Edredo platform for adaptive learning
- Edredo tool and its features

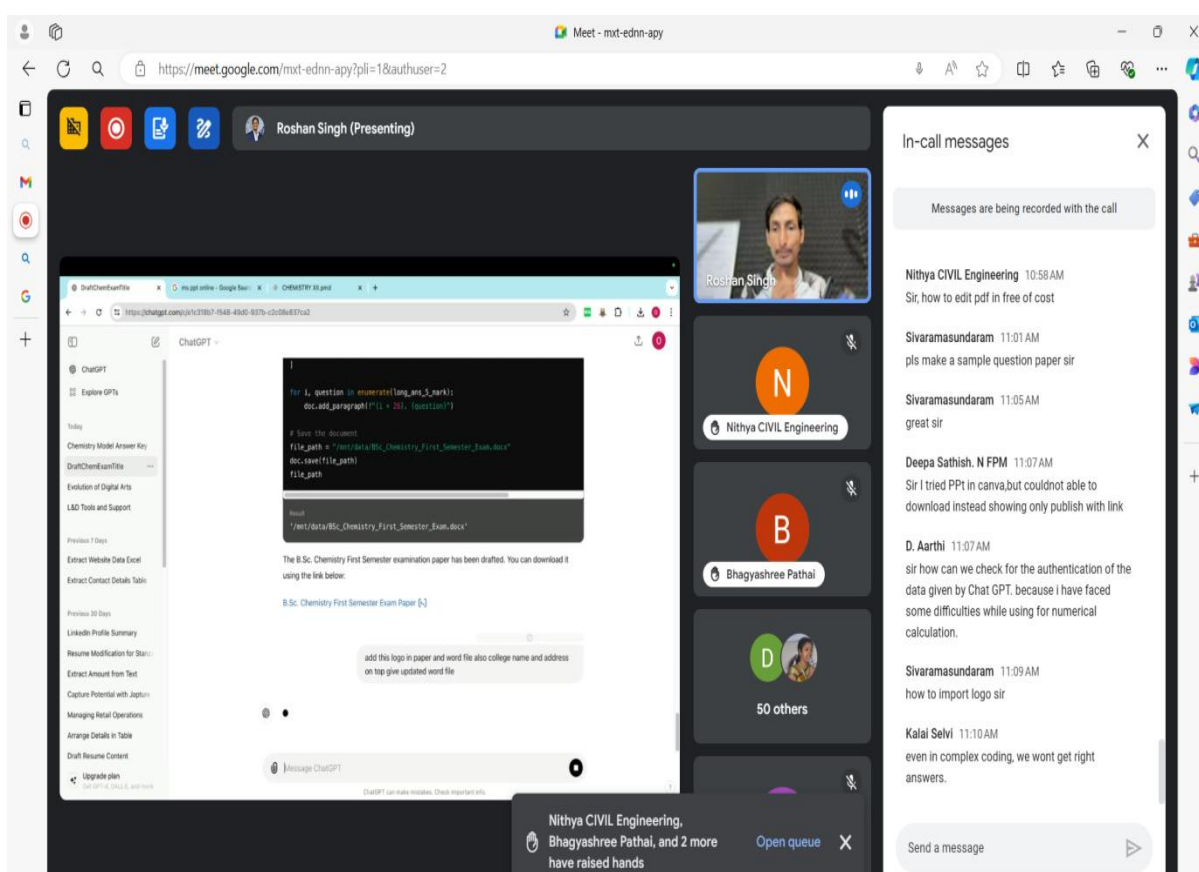
Day 4:18.07.2024 Session 4

‘Hands-on Experience In Creating Assignments and Quizzes Using AI Tools’

Mr. Roshan Singh, Scrollwell, Noida



Mr. Roshan explained on creating quizzes and use of rubrics in it, Google Classroom, creating and on how managing quizzes is a streamlined process that integrates with Google Forms for efficient assessment. He also gave an insightful explanation on Pear Deck, an interactive presentation tool that integrates with Google Slides and Microsoft PowerPoint, allowing educators to create engaging and dynamic lessons. It enables real-time student participation through interactive questions, polls, and activities embedded within presentations, fostering increased engagement and understanding. Teachers can gather instant feedback and adjust their instruction based on student responses, making Pear Deck a valuable resource for enhancing classroom interaction and learning outcomes.

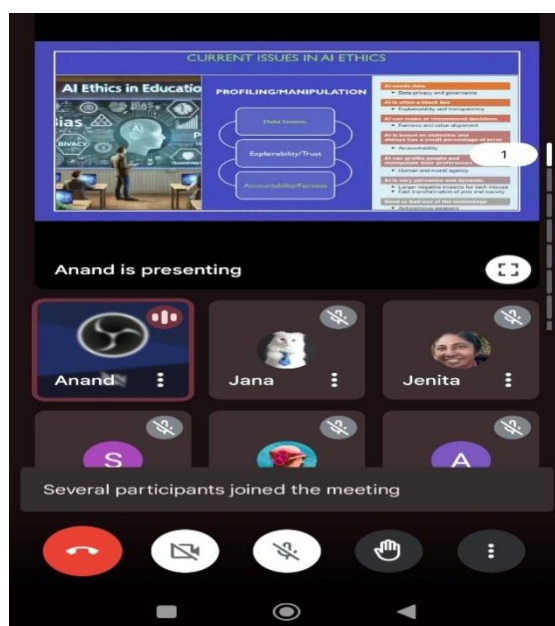


Take away from the session:

- Demonstration of creating quizzes in google classroom and creating rubrics in it.
- To assess student feedback on assignments by a teacher using google forms
- peardeck – an engaging power point presentation application for student teacher interaction.

Day 5: 19.07.2024 Session 1

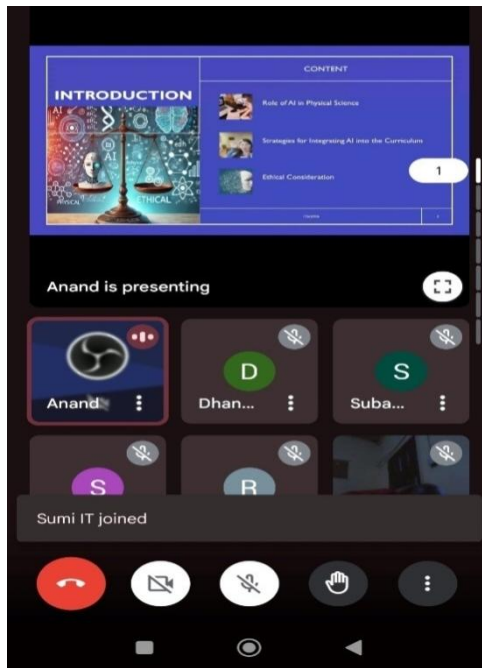
**‘Integrating AI Into Physical Sciences Curriculum and Ethical Considerations’
Dr. Anand Paul, Professor, Kyungpook University, South Korea**



Dr. Anand Paul began the session by emphasizing the importance of, AR and VR technologies in future classrooms as they are expected to significantly enhance the learning experience for students studying physical sciences and said that these technologies offer immersive and interactive ways to explore complex concepts that are often challenging to visualize or understand through traditional methods. Example, VR can transport students to different environments or historical periods, allowing them to experience scientific phenomena firsthand. AR can overlay digital information onto the physical world, providing real-time, interactive explanations of scientific principles.

By integrating AR and VR into the curriculum, educators can create dynamic, engaging learning experiences that help students grasp abstract concepts more effectively and foster a deeper understanding of physical sciences. Sir emphasized on the thought about using AR and VR in future classrooms, which will play a great role for the stream of physical sciences. Sir also discussed the benefits of using AI in material discovery and also about the usage of robots in medicine and nuclear power plants

Sir also discussed about ethics in AI in the aspects of data privacy and transparency

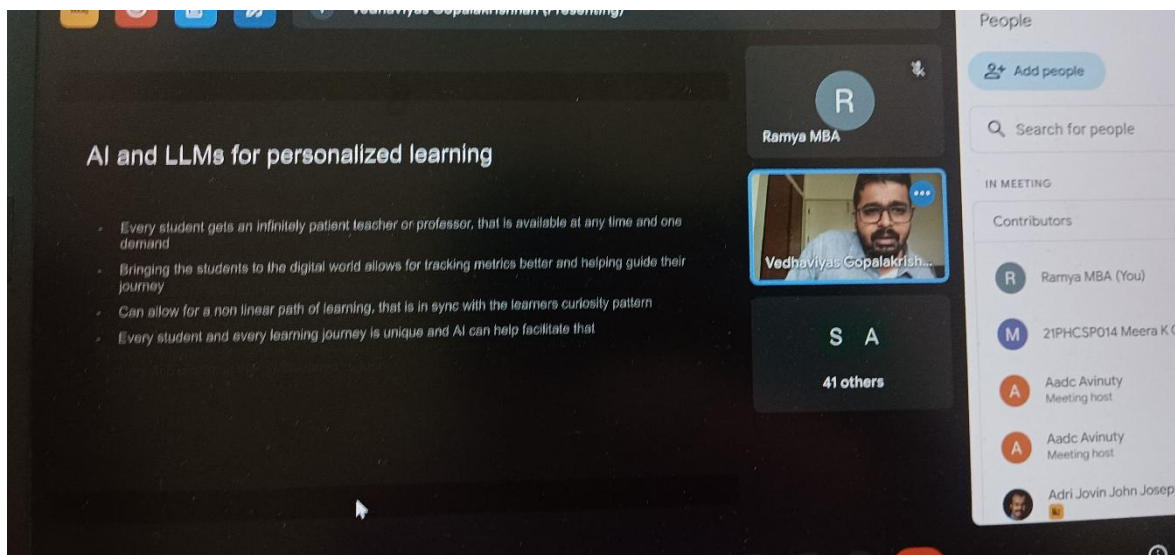


Take Away from the session:

- Importance of Augmented Reality (AR) and Virtual Reality (VR) on the future of education, especially in physical sciences
- Perspectives of ethics in AI

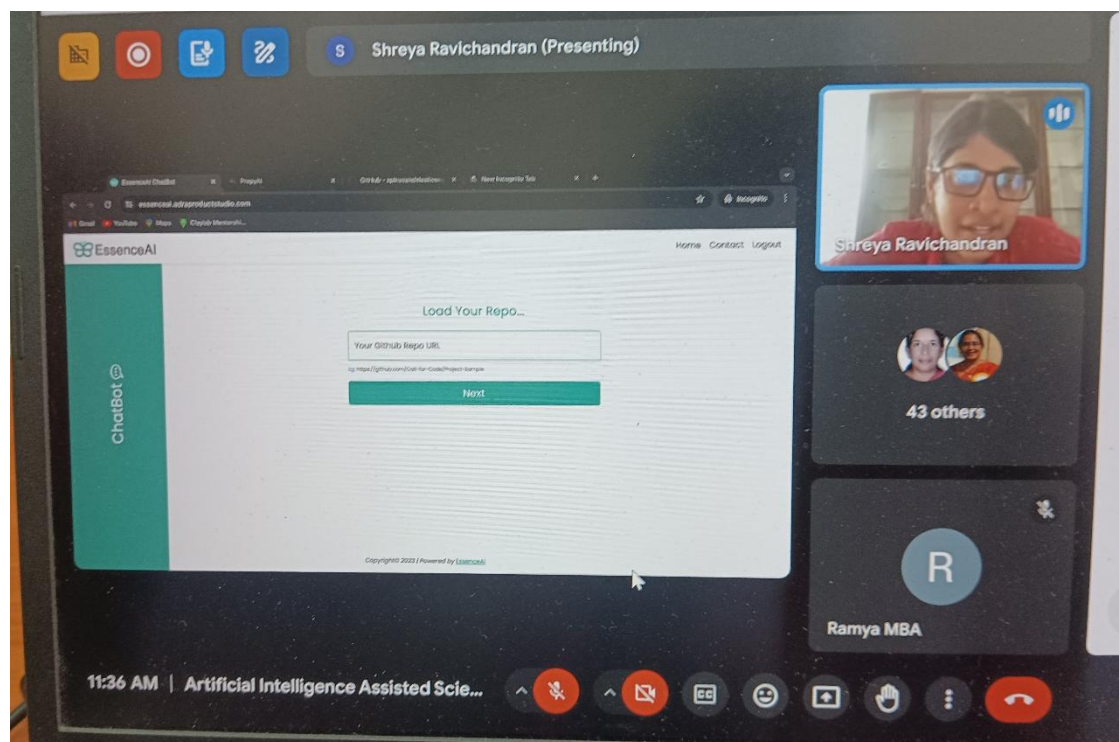
Day 5: 19.07.2024 Session 2

**‘AI For Virtual Tutoring Assistant’
Vedha Viyas Gopalakrishnan, Co- Founder Adra Product Studio, Atlanta**



Mr. Vedha viyas started the session by explaining the importance of Personalized learning and said that it is an educational approach that tailor’s instruction, resources, and learning experiences to the individual needs, strengths, and interests of each student. The goal of it is to

optimize learning outcomes by accommodating different learning styles and paces. He further explained and gave an exclusive demonstration on about prepy AI and Essence AI developed at ADRA solutions. Sir also explained about the audio tutor for students which aids in learning mathematics.



Take Away from the session:

- Perspectives and importance of personalized education
- Understanding Preppy AI and Essence AI
- Various frameworks for prompting ChatGPT for educators

Day 5: 19.07.2024 Session 3

‘Developing AI Based Lab Exercises and Projects’

Mr. Joel Prince

Founder Berachah Academy, Coimbatore

Mr. Joel explained on the background of how prompting works. Prompting in AI involves providing specific input or instructions to guide the model's response. Essentially, a prompt serves as the starting point for generating output, influencing how the model interprets and responds to a given query. LLMs, like GPT, are trained on diverse text data, enabling them to recognize patterns and contexts. When a prompt is input, the model uses these learned patterns to generate a response that aligns with the given context. The effectiveness of prompting relies on the clarity and specificity of the input, as well as the model's ability to understand and process the prompt based on its training, and he emphasized on the advancements of AI like smart homes. Sir also briefed about the works done at berachah academy.

Take Away from the session:

- Background operation of prompting
- AI smart homes

In Toto the following were the AI Tools exposed to the participants

	Crafting Images	Voice Generating Tools
	Canva	Narakeet
	Adobe firefly	Elevenlabs
Text to Content Tools	Microsoft Designer	Dubverse. AI
ChatGPT	Pixlr	Natural Reader
Canva	FreePik	Sound draw
MS ppt online		
Gamma AI	Augmented and Virtual Reality Tools	Language Learning Software
Claude	AR loopa	Duolingo
Copilot	Animal 4D cards – AR	Google translate
Gemini	Space craft AR	Memrise
Quizlet	Anatomy AR 4D	ChatBoT
Mark map		
Geninnov.com	Tools for Questions and Quizzes	Platforms for teaching and learning
Autodraw.com	Gimkit	Khan Academy
Virbo	Gameshow	Dream Box
Steve.ai	ChatGPT	EduLastic
wimsical	Slidesgo	Edredo
Genially	Kahoot	Google classroom
Anuvadini		
Google vids	Tools for Video creation	Plagiarism Check Tools
Coggle.it	Video poet	Turnitin
Slides go	Sora	Urkund
	Anthiago	Ithenticate
	Elai	Small SEO tools
	Meta	Grammarly
	Miro	Dupli checker
	Narakeet	Plagscan
		Quetext
		PaperRater
		Copyscape
		Unicheck

Valediction

The Five-day short term capacity building programme on “**Artificial Intelligence Assisted Science Education**” jointly organized by the AIU-AI-AADC (Association of Indian Universities - Avinashilingam Institute - Academic & Administrative Development Centre), Centre for Machine Learning and Intelligence and School of Physical Sciences and Computational Sciences during **15-19 July in online mode** culminated on the evening of 19th July 2024. Seventy Two-participants attended the programme online. Twenty sessions each of 90 minutes duration were planned and conducted with utmost punctuality and participation by all the expert resource persons. The programme brief is presented in **Annexure 1**. The schedule of the programme with the resource person details is presented in **Annexure 2**. The programme was planned and executed within a duration of 30 days (Planning of programme, inviting resource persons and participant intimation was done twenty days prior to the programme)

The valedictory meet began with a **prayer song by Mrs. R. Dhanya Sruthi**, Research scholar, Department of Chemistry. **Mrs. S. Sindhu**, Research scholar, Department of Chemistry **welcomed the gathering**. **Dr. P. Subhashini**, Professor, Department of Computer Science, Coordinator – CMLI, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore and Programme Coordinator of this Short-term capacity building programme, delivered a **warm note of greetings** to the participants.

The session was followed by **participant presentations** of their work using **AI assisted tools** taught by various resource persons in the short-term capacity building programme and the coordinators reviewed the presentations. It was followed by the post assessment session when the organizers shared a **questionnaire to the participants** to evaluate their level of understandings of the sessions.

Dr. Shubashini K Sripathi, Professor, department of chemistry, Deputy dean school of computational and physical sciences, Avinashilingam Institute for home science and higher education for women, Coimbatore and Programme Coordinator of the short-term capacity building programme **presented a brief report** of this five days short-term capacity building programme.

The participants gave their valuable feedback on the conduct of the workshop and choice of resource persons. They highly appreciated the choice of topics, the resource persons, time management of the programme and were highly appreciative of the overall conduct of the programme. The overall feedback as received from the participants is presented in **Annexure 3**.

The valedictory session **concluded with a warm note of greetings and formal vote of thanks** by **Dr. K. Ramya**, Nodal officer, AIU-AI-AADC, Avinashilingam Institute for home science and higher education for women, Coimbatore

Annexure 1 **Programme Brief**

Artificial Intelligence (AI) significantly enhances education by offering personalized, efficient, and engaging learning experiences. In science education, AI's impact is transformative, addressing students' difficulties with scientific concepts and improving their understanding of how science works. AI-powered platforms provide personalized learning, interactive content, intelligent tutoring systems, enhanced assessment tools, and data-driven insights for educators. Integration with Augmented Reality (AR) and Virtual Reality (VR) creates immersive experiences, aiding comprehension of complex scientific concepts through enhanced visualization.

University science education must introduce AI tools for solving scientific problems and encourage students to contemplate AI's impact on science. Embracing AI in teaching can foster 21st-century skills, essential for future generations. AI-incorporated teaching methods support participative learning, experiential learning, and problem-solving strategies, creating effective, student-centric education.

Faculty development is crucial for implementing AI in teaching and assessment. Familiarizing educators with AI-powered platforms tailored for science education enhances personalized learning, interactive simulations, and advanced teaching tools.

AI-powered feedback tools improve learning outcomes, and AI-assisted content creation, curation, and lesson planning advance STEM education. Leveraging AI to create engaging, personalized, and effective learning experiences is essential for fully understanding scientific concepts and preparing students for future challenges.

Objectives:

1. To provide an overview of AI in STEM education and its advantages.
2. To provide an exposure to AI applications in Sciences.
3. To gain valuable insights and practical skills to effectively integrate AI in teaching and research in the physical sciences and computational sciences.

Annexure 2 Feedback from the Participants

Participant feedback was solicited from all the participants. The responses received are documented below:

<p>1. "The event was a resounding success! The organizers demonstrated excellent communication skills, keeping participants informed and engaged throughout. The punctuality of the sessions was impressive, with each speaker starting and ending on time.</p> <p>The speakers were extremely knowledgeable and well-versed in their respective topics, providing valuable insights into the applications of Artificial Intelligence in Science Education. The presentations were very informative, interactive, and thought-provoking.</p> <p>The event offered a great platform for learning, discussion, and networking. The organizers, speakers, and participants all contributed to a stimulating and enriching experience.</p> <p>Overall, the event was well-organized, informative, and engaging. It exceeded expectations and provided a valuable learning experience. Kudos to Avinashilingam University for hosting such a fantastic event!"</p>
<p>2. All sessions were organized very well. I thank organizers and nodal officer for the excellent arrangements of the speakers. We learnt many AI tools applicable for teaching learning process.</p>
<p>3. All the session were very nicely organized, kudos to team</p>
<p>4. Artificial intelligence (AI) and all its global technological ramifications are evolving at a very fast pace, but it appears the educational sector is slow to catch up with the emerging AI opportunities for making positive differences to the students' learning experience and the faculty's workloads. This 5-day training is therefore not only timely but also very comprehensive. Over the past five days, I have learned a lot about various evolving AI tools and platforms that should make my workload much easier and less time consuming, while also helping me deliver higher-quality teaching and scientific research solutions. The resource persons were fantastic; they brought in a great deal of AI diversity, passion, experience, and expertise. Big congratulations to the organisers; the entire programme was professionally organised and perfect, you would think that the organisers themselves were AI-assisted!!</p>
<p>5. As a research scholar attending the 5-day seminar on AI-assisted science education, I found the experience to be profoundly enriching and intellectually stimulating. The seminar offered a comprehensive overview of the latest advancements in AI technologies and their practical applications in the field of science education.</p>
<p>6. During the course of the FDP program, artificial intelligence-based features in the teaching learning system have raised awareness, encouraged creativity, and allowed for timely evaluation of current students. The profession improves when the facilitator uses artificial intelligence (AI) to enhance traditional ways with tools we gained from this platform, moving more and more towards online approaches. In terms of creating content, creating e-content, managing classrooms in various languages, and adding several additional options that can be edited quickly, As a result, the FDP program effectively assists in introducing fresh viewpoints to the teaching profession. Additionally, after participating in the FDP program, instructors from science disciplines can employ AI tools more efficiently.</p>
<p>7. Entire sessions were too good.It provided advanced learning in AI</p>
<p>8. Everything of the 5 days sessions was wonderful. Enjoyed the sessions. Good lessons taught. Thankyou for such a resourceful workshop. Organized in the perfect form. Right from the start of each day till the finish of the day's session was excellent. Words of appreciation for the perfect work done by the organizing team.</p>
<p>9. Excellent</p>
<p>10. Excellent</p>
<p>11. Excellent</p>

12. Excellent sessions. Provided very valuable information for my career. Thank you Organizing committee
13. Good coordination
14. Good FDP
15. I have learned many new concepts from this programme, many new tools were introduced, useful
16. IT IS VERY ADVANCED AND USEFUL
17. It was an enriching experience. The sessions were well-structured, providing comprehensive insights into integrating AI with science education. Expert speakers shared valuable knowledge and practical applications, making the content both informative and engaging. The interactive format encouraged active participation, enhancing the learning experience. Overall, the program successfully equipped participants with the necessary tools and understanding to effectively incorporate AI into educational practices, fostering innovation and advancement in science education.
18. It was an excellent program organised very meticulously keeping in mind all the aspects and requirements in education. Very enriching. Learnt a lot. Now it's time to implement . Thanks a lot for this wonderful experience.
19. It was an Excellent program which enriched my knowledge. i congratulate the organizing team for the successful conduct of this programme.
20. It's very interesting and interactive program...
21. Organized In Excellent Manner and Useful sessions
22. Overall it is amazing experience learnt alotai tools kike cava adibe exrds autobdraw gamma app
23. Overall it's good organizing
24. Overall, all the sessions were very engaging and interactive. I personally learned a lot about Artificial intelligence, and its role in current teaching and research as well from the sessions.
25. please provide your Overall Feedback about the programme in 200 words or less:
26. Program was organized beautifully well manenge and subjects was to good , All invited speakers was so good and i enjoying every presentation
27. Programme was organised well with a team of experts in the field of AI in education. The handson sessions helped a lot to learn the new tools. Will sure explore further with the inputs gained form the sessions and share the knowledge with my faculty colleagues to enrich the teaching and learning process
28. Provided us with concrete takeaways on how we can integrate AI tools into the classrooms and resources for further exploration.
29. Session was intresting, informative,we learnt many new tools in AI which can use during our teaching Some sessions were v lively were hands on training was given which was quite beneficial for us
30. Thank you all the organizers for the wonderful program
31. Thank you all the organizers for the wonderful program.
32. Thank you for giving me the opportunity to attend the sessions
33. Thank you for the great opportunity
34. Thank you to the Organizers for organizing such an informative program. Every sessions are highly informative.
35. The fdp program is very informative. Every session is very useful for educators for their professional development.

36. the program was designed well by engaging all discipline of audience. all could take back some new concepts with them
37. The program was exceptionally well-organized, providing a comprehensive overview of how artificial intelligence can revolutionize science education. The workshops were engaging and informative, with expert facilitators who made complex concepts accessible and exciting. The hands-on sessions were particularly valuable, allowing us to apply AI tools and techniques directly to our teaching practices. The collaborative environment fostered by the organizers encouraged meaningful exchanges of ideas and experiences among participants. I now feel more confident and equipped to integrate AI into my curriculum, enhancing the learning experience for my students. This program has truly broadened my perspective on the future of education and empowered me with the skills to be at the forefront of this transformation. I highly recommend this workshop to any educator looking to innovate their teaching methods.
38. The program was really awesome I gain more knowledge about the importance and significance of artificial intelligence. Thank you so much for the opportunity .
39. The recent series of sessions on integrating AI into various educational and scientific domains was exceptionally informative and engaging. The presentation on "Deep Learning for Video Analytics" offered valuable insights into cutting-edge advancements and practical applications, significantly enhancing our understanding of this technology from a scientific perspective. The hands-on training on "Content Creation Using AI" was both engaging and practical, equipping participants with essential skills and innovative techniques to enhance creative workflows. Similarly, the session on "AI-Powered Feedback Tools for Language, Grammar, and Plagiarism" was incredibly informative, demonstrating the transformative impact of these technologies on improving writing quality and maintaining academic integrity. The insights provided on "AI-Assisted Tools for Formulating Questions and Quizzes" showcased how these technologies can streamline and enhance educational content creation processes. The hands-on experience in creating assignments and quizzes using AI tools was particularly practical, offering valuable skills to efficiently develop engaging educational materials. Finally, the presentation on "Integrating AI into the Physical Sciences Curriculum and Ethical Considerations" was thought-provoking, highlighting the educational benefits and ethical challenges of incorporating AI into academic programs. Overall, these sessions were highly beneficial, offering a comprehensive understanding of AI's potential and practical applications across various fields while emphasizing the importance of ethical considerations.
40. The topic and the field choosen is the need of the present situation. Implementing and using advanced tools such as Artificial Intelligence, Machine Learning, Deep learning in Teaching learning process will be highly acceptable. This is the first in my 25 years of service to know and learn the tools for education.
41. This five days program offered a comprehensive coverage of science education topics, blending foundational concepts with advanced applications effectively. The use of AI was innovative and impactful, enhancing learning through interactive simulations and personalized learning paths. The sessions were engaging, with hands-on activities and real-time data analysis exercises that kept us actively involved. Resource persons demonstrated deep knowledge, effectively guiding discussions and clarifying complex concepts. Thank you very much for this opportunity.
42. This program is very useful for Me .I learnt many thing from this program. I have Realtime exposure. I have hands on training .It is really Amazing .kindly arrange one more program for us
43. Ver Excellent
44. Very Excellent
45. Very good well organised session with brilliant speakers.

46. Very informative program on application of various AI tools. Got very good learning experience on new tools with hands on teaching. My heartiest thanks to the organising team for conducting this program
47. Very informative sessions. Appreciate the smooth conduct of the sessions and selection of resource persons.
48. Very Interest to Ai program and plagiarism, algorithm, Practice also well
49. Very useful
50. Very well organised as a team work . Very good Communication to the participants . Clarifying all the doubts . Good resource persons and knowledgeable. Over all I have attended excellent and knowledgeable programme and gained knowledge. Thank you from the. Bottom of my heart
51. Very well organized program. All sessions were informative and resource persons presented and explained very nicely. Learned a lot.
52. We had very good session. Thank you for the organizers
53. Well Organised programme conducted with all highly qualified resources person. Gain lot of knowledge about utilisation of AI in Education
54. Well planned and well organised.

Email Feedback from a Participant

Participant feedback

Kumar V S <shanmugavsk.2010@gmail.com> Fri, Jul 19, 2024 at 4:46 PM
 To: subhashiniksripathi_chem@avinuty.ac.in

Respected madam,

This five days program offered a comprehensive coverage of science education topics, blending foundational concepts with advanced applications effectively.

The use of AI was innovative and impactful, enhancing learning through interactive simulations and personalized learning paths.

The sessions were engaging, with hands-on activities and real-time data analysis exercises that kept us actively involved.

Resource persons demonstrated deep knowledge and enthusiasm, effectively guiding discussions and clarifying complex concepts.

Thank you very much for this opportunity.

with regards,

Dr. V.S.Kumar, Asst.Prof.(Physics), Swami Dayananda College of Arts & Science, Manjakkudi, Tiruvarur Dt

Glimpses of Feedback

“Very well organized as a team work .Very good Communication to the participants, clarifying all the doubts, Good resource persons and knowledgeable. Over all I have attended excellent and knowledgeable programme and gained knowledge. Thank you from the. Bottom of my heart”

“Beginning on the first day, every session has eminent speakers who are very effective and energetic about the subject. Fantastic and really committed organizers in all aspects for the participants, and excellent hospitality”

"The event was a resounding success! The organizers demonstrated excellent communication skills, keeping participants informed and engaged throughout. The punctuality of the sessions was impressive, with each speaker starting and ending on time”

It was an enriching experience. The sessions were well-structured, providing comprehensive insights into integrating AI with science education. Expert speakers shared valuable knowledge and practical applications, making the content both informative and engaging. The interactive format encouraged active participation, enhancing the learning experience. Overall, the program successfully equipped participants with the necessary tools and understanding to effectively incorporate AI into educational practices, fostering innovation and

“This 5-day training is therefore not only timely but also very comprehensive. Over the past five days, I have learned a lot about various evolving AI tools and platforms that should make my workload much easier and less time consuming, while also helping me deliver higher-quality teaching and scientific research solutions. The resource persons were fantastic; they brought in a great deal of AI diversity, passion, experience, and expertise. Big congratulations to the organisers; the entire programme was professionally organised and perfect, you would think that the organisers themselves were AI-assisted!!”

Participants List

S.No	Name	Designation	Department	Institution/ Organisation Name
1	Dr. KAVYASHREE. D	Associate Professor and Head	PHYSICS	ACHARYA INSTITUTE OF TECHNOLOGY
2	Mrs. SAKHI RAMESH	TEACHER	CHEMISTRY	AL NOOR INTERNATIONAL SCHOOL, BAHRAIN
3	Mr. BENEL DAS REYMAND	COORDINATOR	COMMERCE	AL NOOR INTERNATIONAL SCHOOL, BAHRAIN
4	Dr. G.Ramalingam	Assistant professor	Department of Nano science and technology	Alagappa university
5	Dr. R.SENKAMALAVALLI	Associate Professor	Information Science and Engineering	AMC ENGINEERING COLLEGE
6	Ms. Anjali Sankar	Assistant Professor	Department of Computer Applications	ASIET
7	Dr. M AMUTHA SELVI	Assistant Professor	Chemistry	Avinashilingam Institute for Home Science and Higher Education for Women
8	Mrs. SMITHA K S	Part Time PhD Scholar	Computer Science	Avinashilingam Institute for Home Science and Higher Education for Women
9	Dr. R. Sowbaraniga	Assistant Professor	Education	Avinashilingam Institute for Home Science and Higher Education for Women
10	Dr. S. Anitha	Assistant Professor (SS)	Physics	Avinashilingam Institute for Home Science and Higher education for women
11	Mrs. Vinodhini.J	Research scholar	Food science and Nutrition	Avinashilingam Institute for Home Science and Higher Education for Women
12	Mrs. Dhanya Sruthi R	Research Scholar	Chemistry	Avinashilingam Institute For Home science and higher education for women
13	Dr. A.Sumi	Assistant Professor	Information Technology	Avinashilingam Institute for Home Science and Higher Education for Women
14	Dr. R V LAKSHMI ALIAS ANUSHA	Ph.D	FSN	Avinashilingam Institute for Home Science and Higher Education for Women

15	Mrs.R. Romela Elizabeth Preena	Research Scholar	Computer science	Avinashilingam Institute for Home Science and Higher Education for Women
16	Mrs. Meera K Chandran	Research Scholar	Computer Science	Avinashilingam Institute for Home Science and Higher Education for Women
17	Mrs. SINDHU S	Research Scholar	Chemistry	Avinashilingam Institute of home science and higher education for women
18	Dr. M. Lakshmi Priya	Assistant Professor	Physics	B. S. Abdur Rahman Crescent Institute of Science and Technology
19	Dr. Buddhaghosh Arjun Shingade	Assistant professor	Physics	Bhawabhuti Mahavidyalaya Amagon
20	Dr. Sumathi. K. Sripathi	Associate professor	Institute of Virtual and Distance Learning	DMI- St. Eugene University
21	Ms.A. FATIMA MARY	Administrator	Management	DMI. St. Eugene University
22	Dr.N.NANDAKUMAR	PROFESSOR	MECHANICAL ENGINEERING- ENGINEERING DESIGN	GOVERNMENT COLLEGE OF TECHNOLOGY
23	Dr. Shachi Mishra	Assistant Professor	P. G. Department of Chemistry	Jai Prakash University, Chapra, Bihar
24	Mrs. Anasuya Mani MP	Assistant Professor	Pharmacology	Jain School of Allied Healthcare and Science
25	Ms. Dnyaneshwari Ram Jadhav	Assistant Professor	BCA/MCA	JSPM University Pune
26	Dr. VIDHYA B	Assistant Professor	Physical Sciences	Karunya Institute of Technology and Sciences
27	Dr. Jenita Thinakaran	Professor	Horticulture	Karunya Institute of Technology and Sciences
28	Dr. RAJU NANDHAKUMAR	Professor	Chemistry	Karunya Institute of Technology and Sciences (deemed to be university)
29	Dr.M.Suguna Devakumari	Assistant Professor	Agriculture	Karunya Institute of Technology and Sciences, Coimbatore
30	Mr. MABUKU T. MWAULUKA	TEACHER	NATURAL SCIENCES	KAUNGA SECONDARY SCHOOL
31	Dr. R.K.Kavitha	Assistant Professor III	Computer Applications	Kumaraguru College of Technology
32	Mrs. JALAJA JAYALAKSHMI V	AP II	MCA	KUMARAGURU COLLEGE OF TECHNOLOGY

33	Dr. K.Kalapriya	Assistant Professor III	CHEMISTRY	Kumaraguru College of Technology
34	Ms. ANNU	Assistant Professor	Department of Information Technology	M.O.P VAISHNAV COLLEGE FOR WOMEN
35	Dr. Sumalya Kaluva	Assistant Professor	Physics	Malla Reddy Engineering College for Women
36	Dr. ROHIT HAZRA	ASSISTANT PROFESSOR	HUMANITIES AND SCIENCES (PHYSICS)	MALLA REDDY ENGINEERING COLLEGE FOR WOMEN
37	Dr .Stephen Aro-Gordon	Assistant Professor	Finance & Strategy	Muscat College (Adjunct Faculty, SDMIMD)
38	Mrs. V.SIVA SANKARI	LECTURER	PHYSICS	NACHIMUTHU POLYTECHNIC COLLEGE
39	Mrs. RATHIKA.V.S	Lecturer	Chemistry	Nachimuthu polytechnic college
40	Dr. NIVAS S	HOD & ASSISTANT PROFESSOR	COMPUTER SCIENCE	NIFT-TEA COLLEGE OF KNITWEAR FASHION
41	Dr. P. KANCHANA	ASSOCIATE PROFESSOR	CHEMISTRY	PSGR KRISHNAMMAL COLLEGE FOR WOMEN
42	Dr. R Revathi	Assistant Professor	Chemistry	PSGR Krishnammal College for Women
43	Dr. AMIRDHA SHER GILL	PROFESSOR	PHYSICS	PSN COLLEGE OF ENGINEERING AND TECHNOLOGY
44	Mrs. Sunu Mary Abraham	Assistant Professor	Computer Science	Rajagiri College of Social Sciences
45	Dr. T VELUMANI	Assistant Professor	Computer Science	Rathinam College of Arts and Science,Coimbatore-21
46	Dr. C. Dhanush	Assistant Professor	Physics	Rathinam College of Arts and Science
47	Ms.K. Kousalya	Assistant Professor	Physics	Rathinam College of Arts and Science
48	Mrs. Bhagyashree Ratan pathai	Asst prof	Chemistry	RKTALREJA College of arts science and commerce Ulhasnagar 3
49	Dr.A.Chandravadhana	Associate professor	Physics (H&S)	S.A.Engineering college, Chennai-77
50	Dr.R.HARIHARASUTHAN	PROFESSOR&HEA D	HUMANITIES&SCI ENCE	S.A.ENGINEERING COLLEGE CHENNAI-77
51	Dr. Asha Mathew	Associate Professor	Chemistry	S.I.W.S.
52	Mrs. Kalaiselvi Sivabalan	Research Scholar	Computer Science	Sathyabama Institute of Science and Technology

53	Dr. Anupa Avinash Kumbhar	Professor	Department of Chemistry	Savitribai Phule Pune University
54	Dr. R.Nithya	Associate Professor	Civil Engineering	School of Engineering, Avinashilingam Institute
55	Dr. Parag Rabara	Associate Professor	Pharmacy	School of Pharmaceutical Sciences, Atmiya University
56	Dr. KARTHICK KUMAR S	ASSOCIATE PROFESSOR	PHYSICS	SETHU INSTITUTE OF TECHNOLOGY
57	Dr. Sivaramasundaram K	Associate Professor	Physics	Sethu Institute of Technology
58	Dr. SIVABHARATHY M	PROFESSOR	PHYSICS	SETHU INSTITUTE OF TECHNOLOGY
59	Dr. Sunil D. Kulkarni	Associate Professor	Chemistry	Sir Parashurambhau College, Pune
60	Dr. ADRI JOVIN JJ	Professor	Information Technology	Sri Ramakrishna Institute of Technology
61	Dr. ADB.Vinothramkumar	Research scholar	Computer science	Sri Ramakrishna mission vidhyalaya college of arts& science
62	Ms. Aarthi D	Research Scholar	Mathematics	Sri Ramakrishna Mission Vidyalaya College of Arts and Science
63	Dr. D. Rajeswari	Assistant Professor	Physics	SRM Institute of Science and Technology, Tiruchirappalli
64	Dr. R. Aarthi	Assistant Professor	Physics	SRM Institute of Science and Technology, Tiruchirappalli
65	Dr. UJWALA B	Assistant professor	Chemistry	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY TIRUCHIRAPPALLI
66	Dr. Subramanian R	Assistant Professor	Chemistry	SRM Institute of Science and Technology, Tiruchirappalli Campus
67	Dr. KUMAR V.S.	ASSISTANT PROFESSOR	PHYSICS	SWAMI DAYANANDA COLLEGE OF ARTS & SCIENCE
68	Dr. Sunija A J	Assistant Professor	Chemistry	Thiagarajar College of Engineering, Madurai
69	Dr. Shashi Pandey	Assistant Professor	Department of Chemistry	University of Lucknow, Lucknow, Uttar Pradesh
70	Dr.N.DEEPA SATHISH	Associate Professor and HOD	Food Processing Technology and Management	PSGR Krishnammal College for Women
71	Mr. Rachit Kumar	PGT PHYSICS	Physics	THE LAWRENCE SCHOOL, LOVEDALE
72	P. Madhumitha	Research Scholar	Chemistry	Avinashilingam Institute of home science and higher education for women

Sample Certificate

Avinashilingam Institute for Home Science and Higher Education for Women



Deemed to be University Estd.u/s 3 of UGC Act 1956, Category A by MHRD (now MoE)
Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC
Coimbatore-641043, TamilNadu, India



AIU - Avinashilingam Institute - Academic & Administrative Development Centre (AIU-AI-AADC)
&
Centre for Machine Learning and Intelligence
&
School of Physical Sciences and Computational Sciences

Certificate No: AIU - AI - AADC/ 2024 /05/044

CERTIFICATE OF PARTICIPATION

This is to certify that

Dr. R. Hariharasuthan

Professor & Head, Department of Humanities and Science
S.A. Engineering College, Chennai

has participated in the Short-Term Capacity Building Programme on
"Artificial Intelligence Assisted Science Education" conducted by

AIU - Avinashilingam Institute - Academic & Administrative Development Centre (AIU - AI- AADC) &
Centre for Machine Learning and Intelligence (CMLI) & School of Physical Sciences and Computational Sciences
from 15/07/2024 to 19/07/2024 and his performance was Good.

Dr. K. Ramya
Nodal Officer
AIU-AI-AADC

Dr. Shubashini K. Sripathi
Programme
Coordinator

Dr. P. Subashini
Programme
Coordinator

Dr. Amarendra Pani
Joint Director & Head
Research Division, AIU

Dr. Pankaj Mittal
Secretary General
AIU

Dr. H. Indu
Registrar i/c
Avinashilingam Institute

Dr. V. Bharathi Harishankar
Vice Chancellor
Avinashilingam Institute

AIU-AI-AADC

5th Short-Term Capacity-Building Program on ‘Artificial Intelligence Assisted Science Education’

Day/Date	Session I - 9.30 to 11.00 am	Session II - 11.15 to 12.45 pm	Session III - 1.30 to 3 pm	Session IV - 3.15 to 4.45 pm
15 th Jul' 2024 Monday	Overview of AI and its relevance to Physical Sciences Inaugural Address Prof. Hari V Sahasrabudhe Kanwal Rekhi School of Information Technology Indian Institute of Technology, Mumbai Email : hvs@it.iitb.ac.in Mobile :897 553 8035	Significance of Machine learning tools and languages in AI-powered education Dr. T.Devi, Dean - Research PSG Tech - IIM Coimbatore	Artificial Intelligence in Chemistry: Current Landscape and Future Opportunities Dr. V.Rajapandian Assistant Professor of Chemistry Sri Ramakrishna Mission Vidhyalaya Coimbatore Email : vrajapandian@hotmail.com Mobile :9500934166	Deep Learning and Pattern Recognition Dr.Punithavalli Professor and Head Dept. of Computer Applications Bharathiar University, Coimbatore
16 th Jul' 2024 Tuesday	AI-powered platform for learning environment Dr. M. Vinay, Associate Professor, Department of Computer Science, School of Sciences, Christ University Bangalore. EMail : vinay.m@christuniversity.in Mobile: 99863088234	Integration of AI with Moodle Learning environment Mrs. Elizabeth Leah George Assistant Professor Nagindas Khandwala College Mumbai. Email : elizabeth@nkc.ac.in Mobile : 9833198228	Intelligent tutoring systems (ITS) and Virtual Teaching Assistants Prof. P.Subashini Centre for Machine Learning and Intelligence Avinashilingam University for Women Coimbatore. Email : subashini_cs@avinuty.ac.in Mobile :9442271971	Virtual Reality and Augmented Reality Tools for Immersive Learning Experience in Science Dr. K.Thiyagu Assistant Professor Department of Education, Central University of Kerala Kasaragod, Kerala. Email: thiyagusuri@gmail.com , thiyagucuk@gmail.com Mobile: 9486812800
17 th Jul' 2024 Wednesday	Content creation tools - educational content writing, reporting, storytelling and creative writing, lesson plans and quizzes, Significance of AI in content curation Mr. Roshan Singh Founder - Scrollwell Block D, Sector 36, Noida. www.scrollwell.com Email : roshan@scrollwell.com Mobile :70095 48243	Multimedia content creation - Video and Audio Production, Image and Graphic Design Dr. M. Vinay, Associate Professor Department of Computer Science, School of Sciences, Christ University Bangalore. EMail : vinay.m@christuniversity.in Mobile: 99863088234	Deep Learning for Video Analytics - in Science perspectives Dr. P. S. Hiremath Professor Department of Computer Science(MCA) KLE Technological University BVB Campus, Hubballi. Mob : +91 9480226698 Email : hiremathps53@yahoo.com	Hands-on Training on Content Creation Using AI Dr. K.Thiyagu Assistant Professor Department of Education, Central University of Kerala Kasaragod, Kerala. Email: thiyagusuri@gmail.com , thiyagucuk@gmail.com Mobile: 9486812800
18 th Jul' 2024 Thursday	AI-Powered Feedback Tools for language, grammar and plagiarism Dr. Kalaiselvi Gandhigram Rural University, Dindigul. Email : kalaiselvi.gri@gmail.com Mobile :9486362843	AI assisted Tools for formulating questions and quizzes Dr Suresh Shanmugasundaram Lecturer, University of Wales, Trinity UK. Email: s.shanmugasundaram@swansea.ac.uk	Edredo AI Tools Demonstration Prof. P.Subashini Centre for Machine Learning and Intelligence Avinashilingam University for Women Coimbatore Email : gladston@rediffmail.com Mobile : 9447388887	Hands-on experience in creating assignments and quizzes using AI Tools Mr. Roshan Singh Founder - Scrollwell Block D, Sector 36, Noida. www.scrollwell.com Email : roshan@scrollwell.com Mobile :70095 48243
19 th Jul' 2024 Friday	Integrating AI into physical sciences curriculum and ethical considerations Prof. Anand Paul Kyungpook University South Korea. Email : paul.editor@gmail.com	AI for virtual tutoring Assistant Mr. Vedha Vijay Chief Technical Officer ADRA AI Studio Coimbatore.	Developing AI-based lab exercises and projects Mr. Joel Prince Founder, Berachah Academy Coimbatore.	Concluding session and feedback Presidential & Valedictory Address Dr. V. Bharathi Harishankar Vice Chancellor Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.

Avinashilingam Institute for Home Science and Higher Education for Women



**AIU – Avinashilingam Institute –
Academic and Administrative Development Centre
(AIU-AI-AADC)**

&

Centre for Machine Learning and Intelligence (CMLI)

&

School of Physical Sciences and Computational Sciences

Jointly organizes

V Short Term Capacity Building Programme for the year 2024

on

Artificial Intelligence Assisted Science Education

15.07.2024 to 19.07.2024

Online!



**Invited Talks
Case Studies
Hands -on Sessions
Activities**



ABOUT THE INSTITUTE



Avinashilingam Institute for Home Science and Higher Education for Women - the epitome of higher education is one of the premier institutions in India well known for its commitment towards the empowerment of women through value based and holistic education. The institute follows educational ideals of Sri Ramakrishna, Holy Mother Sri Saradamani Devi, Swami Vivekananda and Mahatma Gandhiji. The institute is one of the significant contributions of Padma Bhushan, Dr. T. S. Avinashilingam, an illustrious educationist, freedom-fighter and Gandhian and Dr. Rajammal P. Devadas, the world- renowned nutritionist.

The Institute had its humble beginning in the year 1957 as Sri Avinashilingam Home Science College for Women and has been conferred the Deemed to be University by MHRD in 1988. Few of the recent accolades of the Institute includes: A++ with CGPA of 3.65/4 by NAAC; 81st Rank in NIRF, 5th Rank under the category of 'University & Deemed to be University (Govt. & Govt. Aided) Technical' in ARIIA - 2021.

Presently, the institution is progressing towards 'beyond-excellence' under the able guidance and leadership of Dr.T. S. K. Meenakshi Sundaram, Managing Trustee and Chancellor, Dr. V. Bharathi Harishankar, Vice Chancellor and Dr. S. Kowsalya, Registrar.



ABOUT THE ASSOCIATION OF INDIAN UNIVERSITIES

Association of Indian Universities (AIU) is an apex inter university representative body of universities and other higher education institutions in the country. Established in 1925 as the Inter University Board (IUB) of India, it acquired its legal status as a registered society in 1967 under the Societies Registration Act 1860 and was rechristened as Association of Indian Universities (AIU) in 1973. AIU is the second oldest university association in the world next to the Association of Commonwealth Universities which was established in 1913.

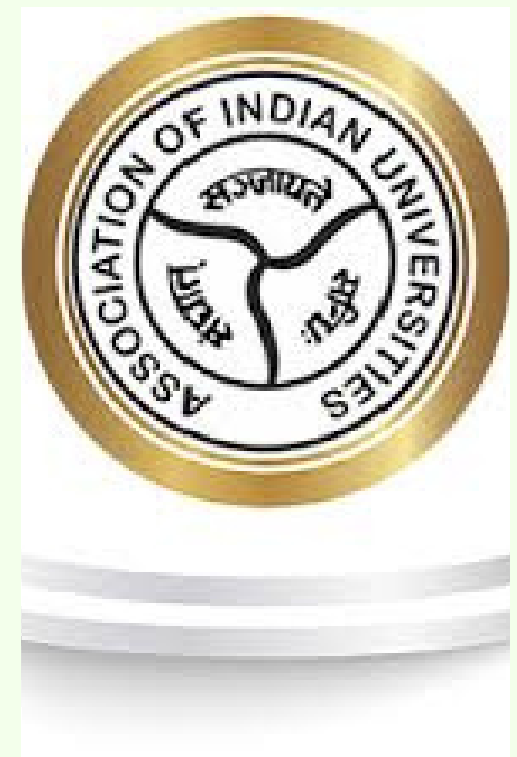
It has the distinct feature of having the largest network of universities and other HEIs under its ambit with 1002 Members which includes 16 Associate Members of Foreign Countries. The membership of AIU includes all types of universities e.g., Conventional Universities, Open Universities, Deemed to be Universities, State Universities, Central Universities, Private Universities and Institutes of National Importance.

In addition to Indian Universities, Universities / Institutes from Bangladesh, Bhutan, Republic of Kazakhstan, Malaysia, Mauritius, Nepal, Thailand, United Arab Emirates and United Kingdom are its Associate Members. Since its inception AIU has played a very significant role in the development of Education in the Country.

Some of the eminent scholars and visionary leaders like Dr Sarvepalli Radhakrishnan, Dr Shyama Prasad Mukherjee, Dr Zakir Hussain, Sir. A L. Mudaliar have given leadership to AIU. During such a long journey, AIU has carved a niche for itself by serving the Ministry of Education, Govt. of India as a research-based policy advisory body. Being an apex institution, it constitutes an integral part of all major decision-making committees and commissions in the country.

As an academic 'think tank' organization, AIU supports the Government as research-based policy advisory body with the wider mandate of taking up research projects on higher education policy and capacity building. It also acts as a bureau of information on higher education; liaise with international bodies and universities for internationalization of Indian higher education among many others. The Vision of AIU is to emerge as a dynamic service and apex advisory organization in India by undertaking initiatives and programmes which could strengthen and popularize Indian higher education as leading-edge system in the world and promote greater national and international collaboration in Higher Education, Research, Extension, Sports, Youth and Cultural Activities.

It is bestowed with the mission of promoting and representing the Indian Universities and other higher education institutions through strong liaison with the government and National/International organizations, sister associations world over and establish liaison between/among universities through active support, cooperation and coordination among the member universities and all its stakeholders for quality education, research and other academics and extension activities.



ABOUT THE CENTRE

AIU-Avinashilingam Institute - Academic and Administrative Development Centre (AIU-AI-AADC) has been initiated by the institute in association with Association of Indian Universities (AIU) as a step towards training the human resources of higher education institutions. The specific objectives of the centre are:

- Facilitate learning through Performance Improvement Programmes for different groups (Administrators/Teaching Faculty/Non-Teaching Research Scholars/Technical Personnel) towards progression based on their career stages.
- Enable continuous learning through rigorous need-based training sessions
- Sensitize stakeholders on recent developments in higher education system in the country and across the world.
- Equip academic / administrative / technical / information personnel with the requisite skills on ICT to handle their work effectively.
- Develop integrity and professional ethics among higher education personnel.
- Strengthen the human capital of the country with right attitude, skills, and knowledge.

VISION

To facilitate value-based transition towards changing higher education ecosystem through continuous capacity building.



MISSION

To impart ICT enabled training to human resources of higher education institutions thereby preparing themselves towards Education 5.0.



ABOUT THE PROGRAMME

- Artificial Intelligence (AI) significantly enhances education by offering personalized, efficient, and engaging learning experiences. In science education, AI's impact is transformative, addressing students' difficulties with scientific concepts and improving their understanding of how science works. AI-powered platforms provide personalized learning, interactive content, intelligent tutoring systems, enhanced assessment tools, and data-driven insights for educators. Integration with Augmented Reality (AR) and Virtual Reality (VR) creates immersive experiences, aiding comprehension of complex scientific concepts through enhanced visualization.



- University science education must introduce AI tools for solving scientific problems and encourage students to contemplate AI's impact on science. Embracing AI in teaching can foster 21st-century skills, essential for future generations. AI-incorporated teaching methods support participative learning, experiential learning, and problem-solving strategies, creating effective, student-centric education.

- Faculty development is crucial for implementing AI in teaching and assessment. Familiarizing educators with AI-powered platforms tailored for science education enhances personalized learning, interactive simulations, and advanced teaching tools.



- AI-powered feedback tools improve learning outcomes, and AI-assisted content creation, curation, and lesson planning advance STEM education. Leveraging AI to create engaging, personalized, and effective learning experiences is essential for fully understanding scientific concepts and preparing students for future challenges.



OBJECTIVES

Your paragraph text

- To provide an overview of AI in STEM education and its advantages.
- To provide an exposure to AI applications in Physical Sciences.
- To gain valuable insights and practical skills to effectively integrate AI in teaching and research in the physical sciences and computational sciences.

TARGET PARTICIPANTS

College teachers in Physics, Chemistry, Materials Science, Environmental Science, Computer Science, Mathematics, and related fields as well as research scholars and school teachers.

Duration : 15.07.24 to 19.07.24

(5 Days Programme)

Time : 9:30 am to 4:45 pm

Note : E-certificates will be issued upon successful completion of programs, with attendance, feedback, and assessment submissions being mandatory.

PROGRAMME SCHEDULE

Day 1: Date: 15.07.2024

Introduction to AI and Machine Learning

- Overview of AI and its relevance to Physical Sciences
- Significance of Machine Learning Tools and Languages in AI-powered education
- Artificial Intelligence in Chemistry: Current Landscape and Future Opportunities
- Intelligent tutoring systems (ITS) and Virtual Teaching Assistants

Day 2: Date: 16.07.2024

AI-Powered Advanced Teaching Tools to Enhance Science Education

- AI-Powered Platform for Learning Environment
- Integration of AI with Moodle Learning environment
- Machine Learning for Physical Sciences
- Virtual Reality and Augmented Reality Tools for Immersive Learning Experience in Science

Day 3: Date: 17.07.2024

AI in Content Creation and Curation

- Content Creation Tools - Educational Content writing, Reporting, Story-Telling and Creative writing, Lesson Plans and Quizzes, Significance of AI in Content Curation
- Multimedia Content Creation - Video and Audio Production, Image and Graphic Design
- Deep Learning for Video Analytics - in Science perspectives
- Hands-on Training on Content Creation Using AI

Day 4: Date: 18.07.2024

AI-Driven Feedback and Assessment Tools

- AI-Powered Feedback Tools for Language, Grammar and Plagiarism
- AI Assisted Tools for Formulating Questions and Quizzes
- AI and Physical Sciences - The Interface'- Case studies: AI in astrophysics, materials science, climate science, chemistry, satellite data analysis, storm prediction
- Hands-on Experience in Creating Assignments and Quizzes using AI Tools

Practical Implementation and Integration

- **Integrating AI into physical Sciences Curriculum and Ethical considerations**
- **AI for Virtual Tutoring Assistant**
- **Developing AI-based lab exercises and projects**
- **Concluding Session ‘Leveraging AI for Enhanced Learning’ Case Studies and Experience Sharing**

LIST OF RESOURCE PERSONS

- **Prof. Hari Sahasrabuddhe, Kanwal Rekhi School of Information Technology, Indian Institute of Technology, Mumbai.**
- **Dr. T. Devi, Dean - Research, PSG Tech - IIM, Coimbatore.**
- **Dr. Punithavalli, Professor and Head, Dept. of Computer Applications, Bharathiar University, Coimbatore.**
- **Dr. P. S. Hiremath, Professor, Department of Computer Science, KLE Technological University, BVB Campus, Hubballi.**
- **Prof. Anand Paul, Kyungpook University, South Korea.**
- **Mr. Roshan Singh, Founder, Scrollwell, Noida.**
- **Mr. Joel Prince, Founder, Berachah Academy, Coimbatore**

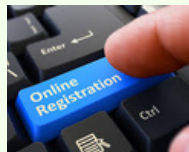
- **Dr. Suresh Shanmugasundaram, Lecturer, University of Wales, Trinity UK.**
- **Dr. M. Vinay, Associate Professor, Department of Computer Science, School of Sciences, Christ University, Bangalore.**
- **Mr. Vedha Viyas, ADRA AI Studio, Coimbatore.**
- **Dr. T. Kalaiselvi, Department of Computer Science & Applications, Gandhigram Rural University, Dindigul.**
- **Dr. V. Rajapandian, Assistant Professor, Department of Chemistry, Sri Ramakrishna Mission Vidhyalaya, Coimbatore.**
- **Dr. K. Thiyagu, Assistant Professor, Department of Education, Central University of Kerala, Kasaragod.**
- **Mrs. Elizabeth Leah George, Assistant Professor Nagindas Khandwala College, Mumbai.**



REGISTRATION

REGISTRATION LINK :

<https://forms.gle/jXsBGrm9if1afjJD9>



REGISTRATION FEE

- Indian Participants Rs. 750
- International Participants USD 25

PAYMENT DETAILS

BANK ACCOUNT DETAILS

Account Name : Avinashilingam Institute for Home Science and Higher Education for Women

Name of the Bank : Indian Bank

Bank Account Number : 6010310202

IFSC Code : IDIB000A005

SWIFT Code : IDIBINBBCBE

AI ADVISORS

Dr. T. S. K. MEENAKSHISUNDARAM, Managing Trustee & Chancellor

Dr. V. BHARATHI HARISHANKAR, Vice Chancellor

Dr. H. Indu, Registrar i/c

AIU ADVISORS

Dr. PANKAJ MITTAL, Secretary General, AIU

Dr. AMARENDRA PANI, Joint Director & Head, Research Division, AIU

PROGRAMME COORDINATORS

Dr. SHUBASHINI K. SRIPATHI

Deputy Dean-School of Physical Sciences and Computational Sciences

Professor, Department of Chemistry

Avinashilingam Institute for Home Science and Higher Education for Women

e-mail ID: subhashiniksripathi_chem@avinuty.ac.in

Mobile :9842267798

Dr. P. SUBASHINI

Coordinator, Centre for Machine Learning and Intelligence

Professor of Computer Science

Avinashilingam Institute for Home Science and Higher Education for Women

e-mail ID: subashini_cs@avinuty.ac.in

Mobile : 9442271971

REACH US AT

Dr. K. RAMYA

Nodal Officer

AIU - Avinashilingam Institute- Academic & Administrative Development Centre (AIU-AI-AADC)

Avinashilingam Institute for Home Science and Higher Education for Women
Coimbatore – 641 043, Tamil Nadu, India.

e-mail ID : aadc@avinuty.ac.in

Mobile : 8072202927

Special thanks to:

AI Advisors

- **Dr. T. S. K. Meenakshisundaram**, Managing Trustee & Chancellor
- **Dr. V. Bharathi Harishankar**, Vice Chancellor
- **Dr. H. Indu**, Registrar i/c

AIU Advisors

- **Dr. Pankaj Mittal**, Secretary General, AIU
- **Dr. Amarendra Pani**, Joint Director & Head, Research Division, AIU

We extend our heartfelt gratitude to all the Invited Guests, Resource Persons, HEI's, Coordinators, Committee Members, Technical staff for their unwavering support!

We sincerely thank each attendee for their participation and enthusiasm!

Welcoming you all again in the future!



Dr. K. Ramya

Nodal Officer, AIU-AI-AADC

AIU - Avinashilingam Institute- Academic & Administrative Development Centre
Avinashilingam Institute for Home Science and Higher Education for Women
Coimbatore – 641 043, Tamil Nadu, India.

e-mail ID : aadc@avinuty.ac.in

Mobile : 8072202927