

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
Sixth Short Term Capacity Building Program
on**

**Artificial Intelligence in Allied and
Healthcare Sciences**

**Organised
by**

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

19.08.2024 - 23.08.2024

Mode : Online

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Sixth Short Term Capacity Building Program on

Artificial Intelligence in Allied and Healthcare Sciences

PROGRAMME COORDINATORS

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

Mrs. A. Umadevi

Coordinator - School of Allied and Healthcare Sciences

Avinashilingam Institute for Home Science and Higher Education
for Women, Coimbatore – 641 043



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AIU-AI-AADC

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

‘Artificial Intelligence in Allied and Healthcare Sciences’

19.08.2024 to 23.08.2024 (5 Days) - Online Mode

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

DAY 1: (19.08.2024)

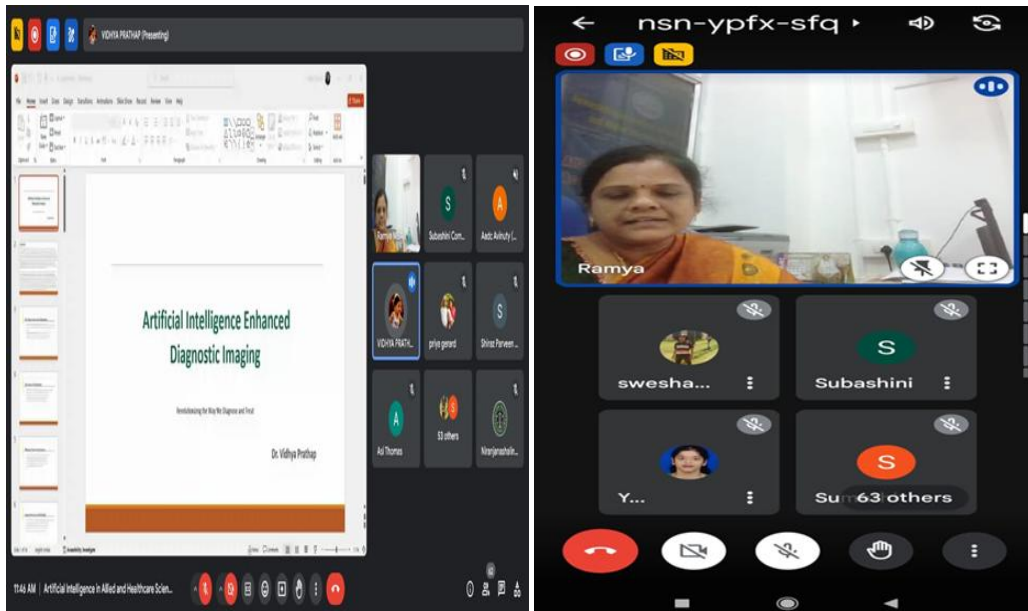
Artificial Intelligence (AI) is rapidly reshaping the landscape of health care, offering unprecedented opportunities to enhance diagnosis, treatment, patient care, and operational efficiency. AIU – Avinashilingam Institute – Academic and Administrative Development Centre (AIU-AI-AADC) & Centre for Machine Learning and Intelligence (CMLI) & School of Allied and Healthcare Sciences jointly organized Sixth Short Term Capacity Building Program for the year 2024 on “**Artificial Intelligence in Allied and Healthcare Sciences**”. This capacity building program explores the profound impact of AI in healthcare, highlighting its benefits, challenges, and ethical implications. This program is designed for faculty members and research scholars from related disciplines of Higher education institutions, Health care administrators, medical professionals, clinical instructors and practitioners. Around 63 participants benefitted from this capacity building program worldwide.

Program gracefully started with receiving the Guest Speaker formally and Tamilthai Vaazhthu, prayer song sung by Allied and Health care sciences students.



PRAYER SONG – STUDENTS OF AHS

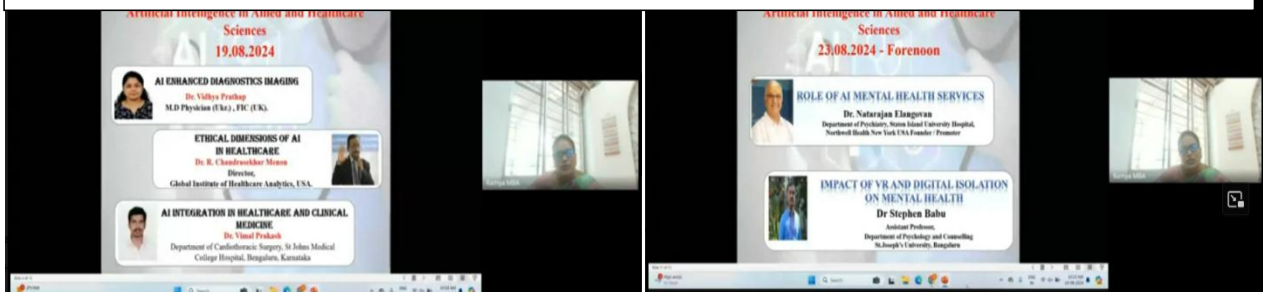
Dr.K.Ramya, Nodal officer, Academic and Administrative Development Centre of Avinashilingam Institute (AIU-AI-AADC) welcomed Guest Speakers formally and greeted the gathering with her soulful speech and welcomed everyone with her insightful thoughts. She delivered introductory remarks on AI and its application in academics.



WELCOME ADDRESS
Dr.K.Ramya, Nodal officer(AIU-AI-AADC)

Mrs.Uma Devi .A, Program Co-ordinator, Co-ordinator –School of Allied and Health Care Sciences felicitated the participants, highlighted the objectives of the five day capacity building program and introduced the Eminent Guest Speakers by her enthusiastic Phrases

EVENT BRIEFING
Mrs.Uma Devi .A, Co-ordinator School of AHS



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Sixth Short Term Capacity Building Programme for the year 2024

Artificial Intelligence in Allied and Healthcare Sciences

INAUGURAL ADDRESS

Application of AI in Healthcare

Prof. Dr. Ashok Thiakarajan
Chief Executive Officer
Meridian Hospital, Chennai

MASTER OF CEREMONY
Mrs. Ramya. P, Assistant Professor,
Department of Physician Assistant, AHS

- Highlighted the importance and evolution of AI among Health Care
- Introduced the speakers with brief profile and their successful contributions in various aspects of Health Care.
- Importance of the seminar for Health care professionals was insisted well.

Dr. H. Indu, Registrar i/c, Avinashilingam Institute for Home Science and Higher Education for Women delivered Presidential address and shared a brief knowledge on Health and its various aspects and impact of the current innovations of AI in Health Care.

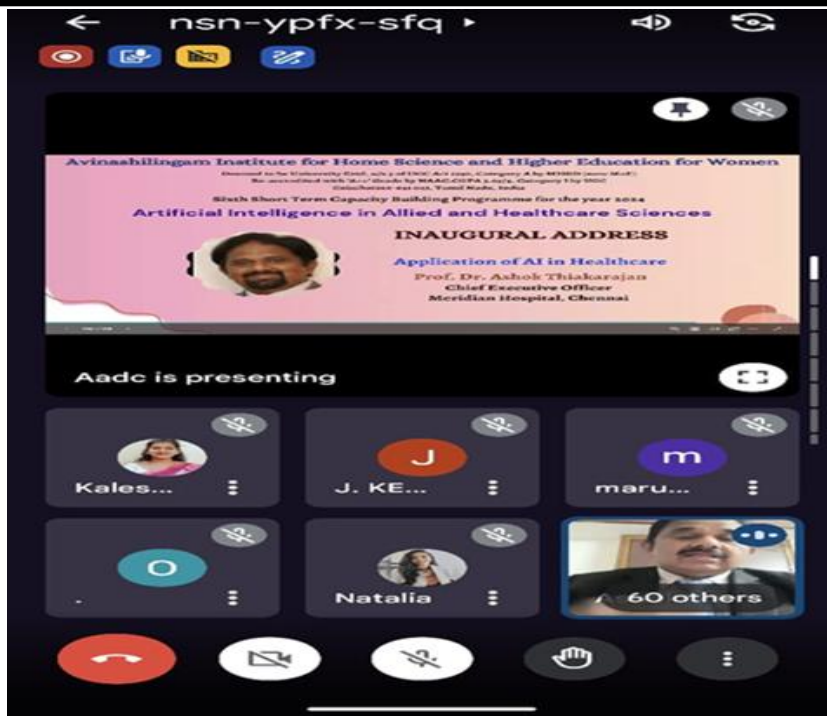


Session-I :Inaugural Address :

Speaker: Prof. Dr. Ashok Thiakarajan, Chief Executive Officer, Meridian Hospital, Chennai.

Topic: APPLICATION OF AI IN HEALTHCARE.

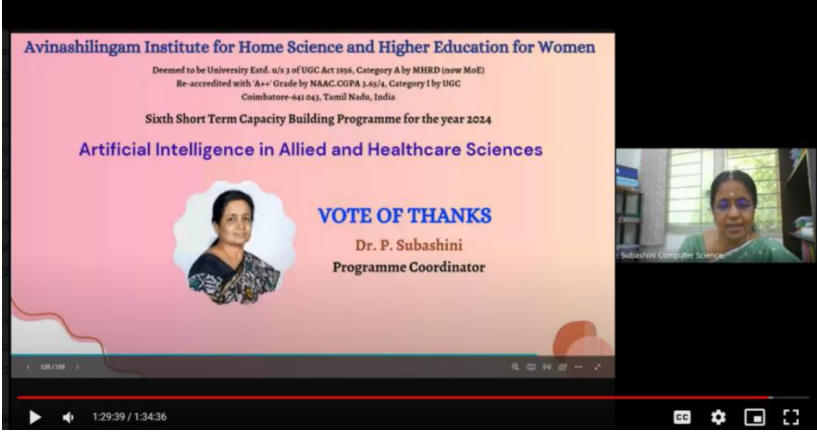
- The seminar session started with self introduction of the guest speaker, History of AI, role of AI in various health sectors. The speaker presented a very crispy and brief presentation with insightful knowledge.
- Secondly, Guest speaker shared his experience in Oncology unit regarding new technology in AI, Harvesting of Cancer cell lines, Analysing of Gene sequences, designing the dosage of Drugs, Telemedicine as a innovative tool and environmental impact in handling Bio medical waste.
- The session ended with interactive question answer session with active participation from all the members.



INAUGURAL ADDRESS
Prof. Dr. Ashok Thiakarajan

Vote of Thanks :

Dr.P.Subashini, Program Co-ordinator, Co-ordinator, Centre for Machine Learning and Intelligence, Professor of computer science, Avinashilingam Institute for Home Science and Higher Education for Women presented the Vote of Thanks.



VOTE OF THANKS
Dr.P.Subashini, Program Co-ordiantor, CMLI

Seminar Session-II :

Speaker: Prof. Dr. Vidhya Prathap,MD,FIC,DMO,General Medicine,UK.

Topic: AI ENHANCED DIAGNOSTICS IMAGING.

- The seminar session started off with the introduction of the guest speaker
- **Prof. Dr. Vidhya Prathap** described elaborately on the Evolution of Diagnosis, and the implications of using AI tools for predicting potential health issues for early diagnosis
- Guest speaker shared his experience in Diagnostic tools regarding new technology in AI, Predictive Analysis.
- She completed her session with elaborated insight in AI and its applications and Domain in Diagnostic tools.



SESSION-II

Prof. Dr. Vidhya Prathap

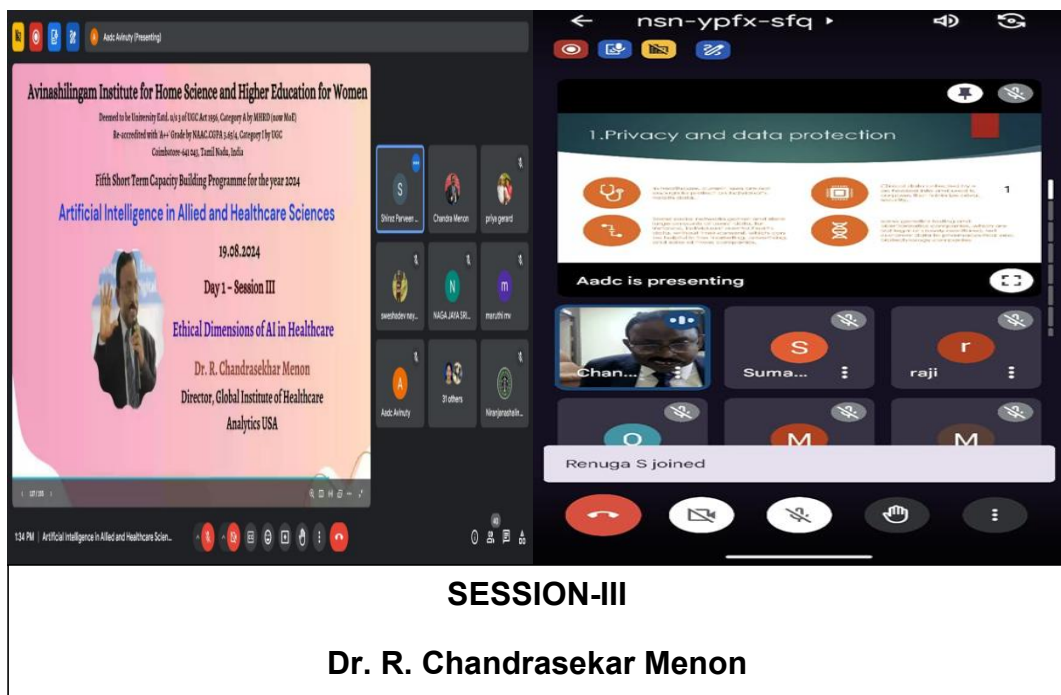
Lunch Break : 1 pm to 2 pm

Seminar Session-III :

Speaker: Dr.R.Chandrasekar Menon,Director,Global Institute of Healthcare Analytics,USA

Topic: ETHICAL DIMESIONS OF AI IN HEALTH CARE.

- With the brief introduction of the Guest speaker profile, the session started off. He spoke on evolution of AI, the importance of Customer Journey mapping, optimising touch points for enhanced experiences, business Intelligence, Data architecture, Data convenience, Data Integration.
- Secondly, Guest speaker shared his experience about use of AI in the Emergency Department, in all aspects like Triage, Investigation, Documentation and Disposition.
- He completed his session with importance of Privacy and data protection , elaborated insight in AI and its applications in Ethical Dimensions.



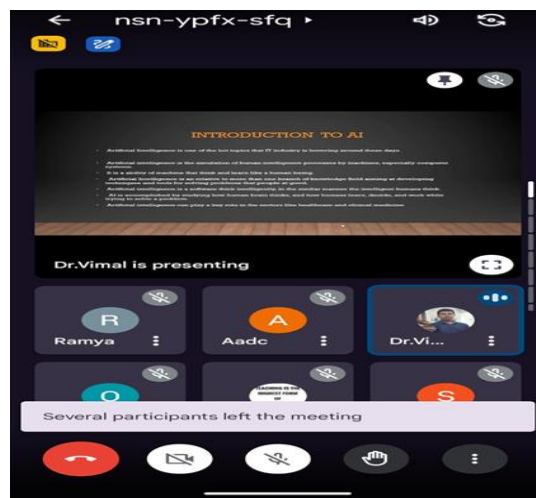
Seminar Session-IV :

Speaker: Dr.Vimal Prakash.P,M.B.B.S,Resident in CardioThoracic Vascular Surgery,St Johns Medical College Hospital,Bengaluru,Karnataka.

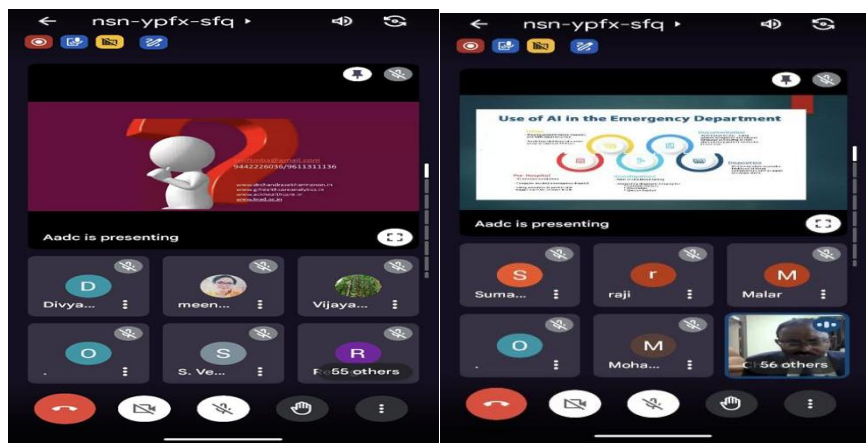
Topic: AI IN HEALTH CARE AND CLINICAL MEDICINE .

- The seminar session started with the introduction of Guest speaker. The speaker discussed the importance of AI in clinical medicine, application of AI in disease identification, Personalised treatment, Robotic Surgery, clinical trial research.
- Guest speaker shared his experience about use of AI tools like Embrace 2, Da Vinci Robot, Human Supervision with AI, Treatment Design.

- He completed his session with Privacy Future Health Care in AI , finally he stated Whoever saves one life, saves the world entire.



SESSION-IV



OPEN DISCUSSION

The Seminar was really helpful and opened insightful thoughts among participants on the importance of Artificial Intelligence and its impact on future of healthcare. It was a more of interactive session with highly experienced Guest speakers in emerging field. Google form shared to all participants to obtain feedback and post test also has been collected.

Day I Session Program ended with humble tribute to nation by singing National Anthem.

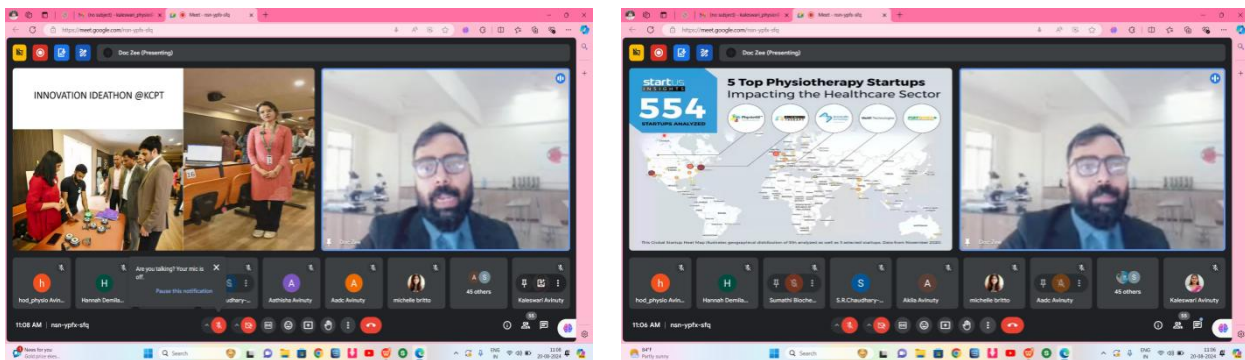
With the need for AI in health care professionals increasing, AI is in demand now more than ever. Artificial Intelligence is one of the hot topics that IT industry is hovering around these days.

Artificial intelligence is the simulation of human intelligence processes by machines, especially computer systems. It is a ability of machine that think and learn like a human being.

Artificial intelligence is a software think intelligently, in the similar manner the intelligent humans think. AI is accomplished by studying how human brain thinks, and how humans learn, decide, and work while trying to solve a problem. Artificial intelligence can play a key role in the sectors like healthcare and clinical medicine. AI have been referred to as the pluripotent stem cells of health professions because of its versatility and adaptability. The seminar will serve as a foundation for further discussions, research, and awareness campaigns in Health Care Sectors.

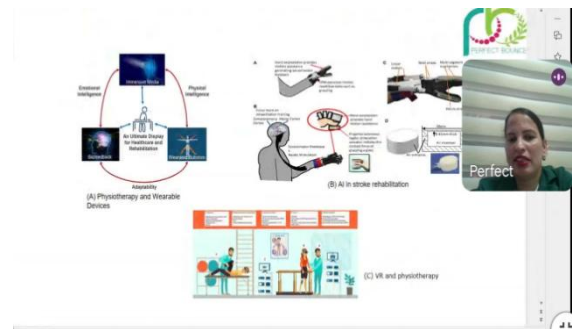
DAY 2: (20.08.2024)

Session 1: Future Trends In Ai and Physiotherapy: Insights Into Upcoming Innovations - Dr.Zeeshan Ali, Associate Professor of physiology, Krupanidhi college of physiotherapy



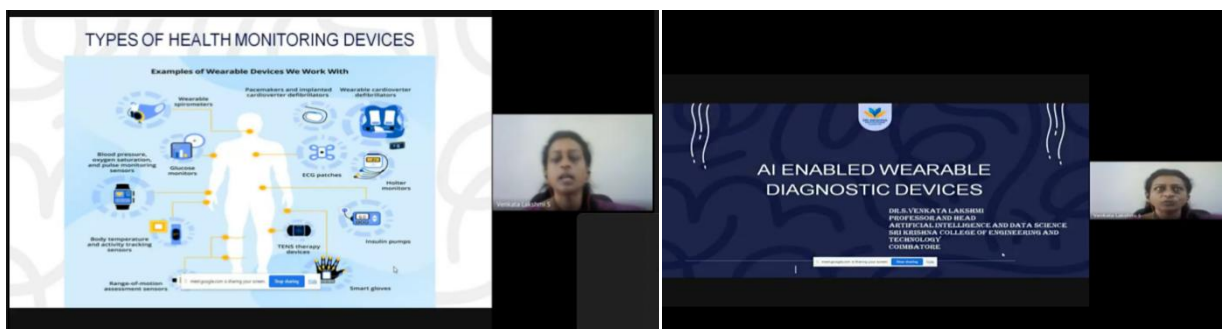
Dr. Zeeshan Ali, Associate Professor of physiology, Krupanidhi College of physiotherapy was the resource person. He facilitated the participants on “**FUTURE TRENDS IN AI AND PHYSIOTHERAPY: INSIGHTS INTO UPCOMING INNOVATIONS**”. He commenced the presentation by clarifying the concept of artificial intelligence within the domains of physiotherapy and healthcare. He thoroughly articulated the obstacles associated with the application of AI in healthcare and the burgeoning technologies. Attendees were informed about ethical considerations and innovative methodologies that can capitalize on these technologies. Furthermore, the presenter provided an overview of the latest advancements utilizing AI and exhibited video demonstrations to illustrate these applications.

Session 2: - Future Of Digital Healthcare In Rural India Physiotherapy Approach- Dr.Richa Singh , Founder of Perfect Bounce.



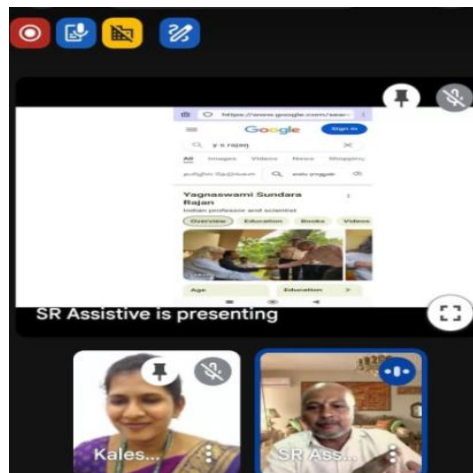
Dr.Richa Singh, founder of perfect bounce was the resource person. She facilitated the participants on “Future of Digital Healthcare in Rural India Physiotherapy Approach”. She commenced the presentation by clarifying the concept of transforming the methodologies employed in the management of healthcare. She elaborated on the digital tools available and provided a succinct overview of tele-consultation and tele-rehabilitation. The speaker imparted insights regarding the utilization of digital applications and virtual reality within the realm of urban healthcare. She conducted training programs encompassing monitoring and evaluation alongside practical training methodologies.

Session 3 : AI Enabled Wearable diagnostic devices- Dr. S. Venkata Lakshmi ,Professor and head of the Department of Artificial Intelligence and data sciences, Sri Krishna College of Engineering and technology, Coimbatore.



Dr. S. Venkata Lakshmi, Professor and head of the Department of Artificial Intelligence and data sciences, Sri Krishna College of Engineering and technology, Coimbatore. He facilitated the participants on “AI Enabled Wearable diagnostic devices”. She commenced the presentation by clarifying the notion of artificial intelligence (AI) integration within diagnostic devices utilized in the healthcare sector. He articulated the impediments associated with the implementation of AI in healthcare, as well as the emergence of novel technologies. She augments the existing knowledge base in the domain of AI and delineates sophisticated concepts. She succinctly discussed Google Lens and its advanced functionalities, explicating its application within the healthcare industry.

Session 4 : AI BASED HEALTHCARE FOR ELDERLY AND DIABETIC PEOPLE- Dr. V. Sampath Kumar sir (Dean Research-Christ College of Engineering, CEO- SR Assistive Technologies Pvt Ltd and Founder Director at Saines Agro Tech Pvt Ltd.



Dr. V. Sampath Kumar, Dean of Research at Christ College of Engineering and a Founding Director of Saines Agro Tech .He commenced the presentation by clarifying the concept of artificial intelligence within the healthcare domain. He elaborated on the enhanced advantages of artificial intelligence for the elderly and individuals with diabetes. In his session, he expounded upon the sources and facilitated the provision of high-quality care for individuals through the utilization of artificial intelligence. He disseminated and guaranteed the understanding and benefits of artificial intelligence in healthcare, particularly concerning the elderly demographic and individuals with diabetes.

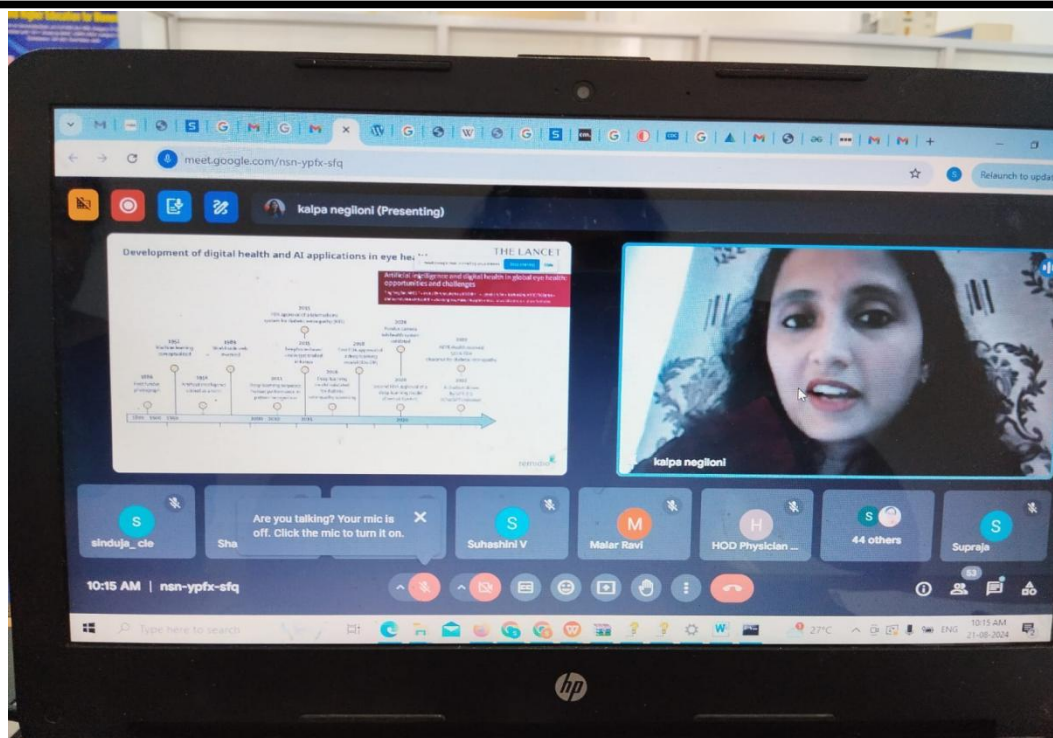
DAY 3: (21.08.2024)

Session: I

Speaker: Dr. Kalpa Negiloni, Clinical Research, AI&ML – Remidio, Bangalore.

Topic: AI IN OPTOMETRY.

- The seminar session was started with self introduction of the guest speaker, role of AI in eye care research, it was a crispy and brief presentation with interactive powerpoint presentation.
- Guest speaker shared the development of digital health and AI applications in eye health. She also shared her experiences as part of the research development cycle for AI in Diabetic Retinopathy.
- She delivers the application of AI in the evaluation of Posterior segment of eye, Binocular Vision disorders, refractive errors.
- She explains comprehensive Fundus Image based screening using AI.

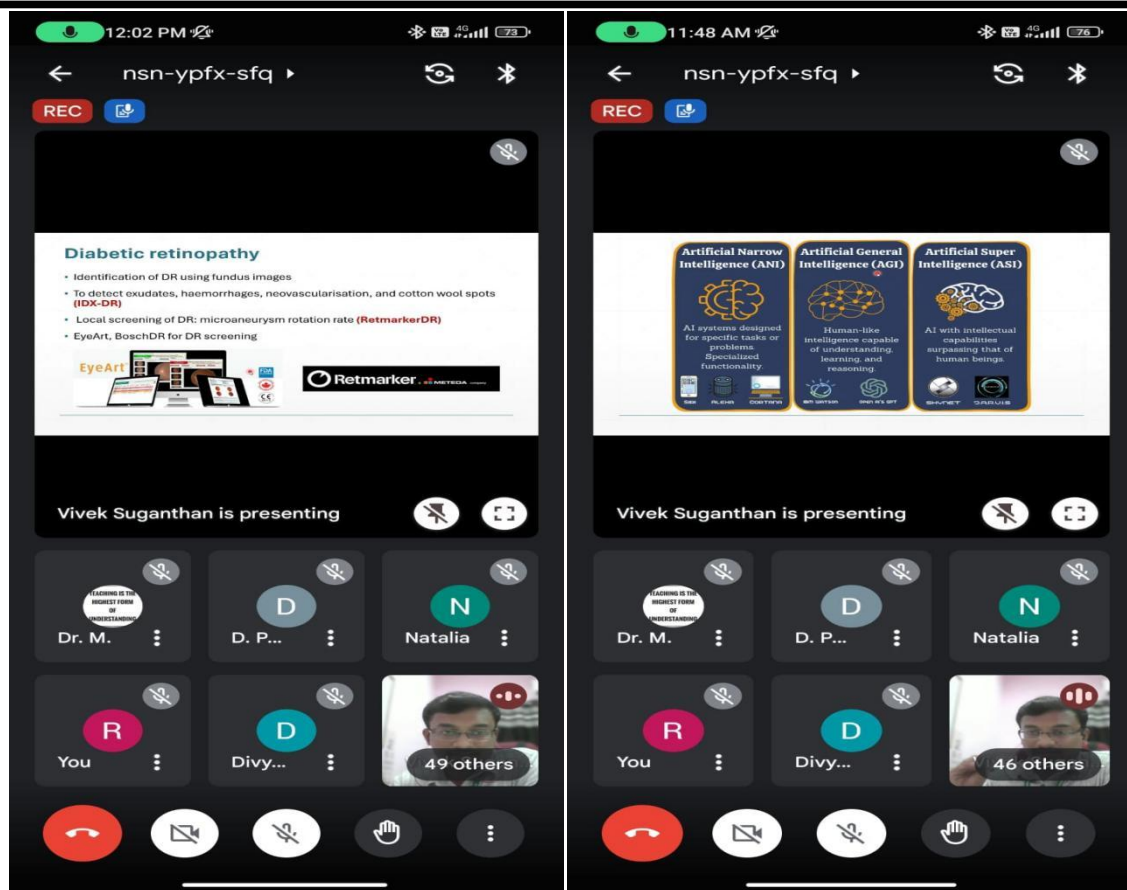


Session: II

**Speaker: Prof. Dr. Vivek Suganthan. R Assistant Professor,
SRM University, Kattankullathur, Chennai.**

Topic: AI POWERED DIAGNOSTIC TOOLS FOR EYE DISEASES.

- The seminar session was started with enveloping the profile of the guest speaker, Evolution of Diagnostic tools for evaluating various ocular condition with brief and interactive powerpoint presentation.
- He explained in detail the identification of Diabetic Retinopathy using AI enhanced fundus images. He described about the AI tools like Retmarker DR, Eye Art, Bosch DR softwares used for screening and evaluating Diabetic Retinopathy.
- He describes about the AI based virtual reality and augmented reality in visual field analysis.
- He concludes his presentation by explaining the Challenges in AI, video documentation references about the involvement of AI in eye.



Lunch Break : 1 pm to 2 pm

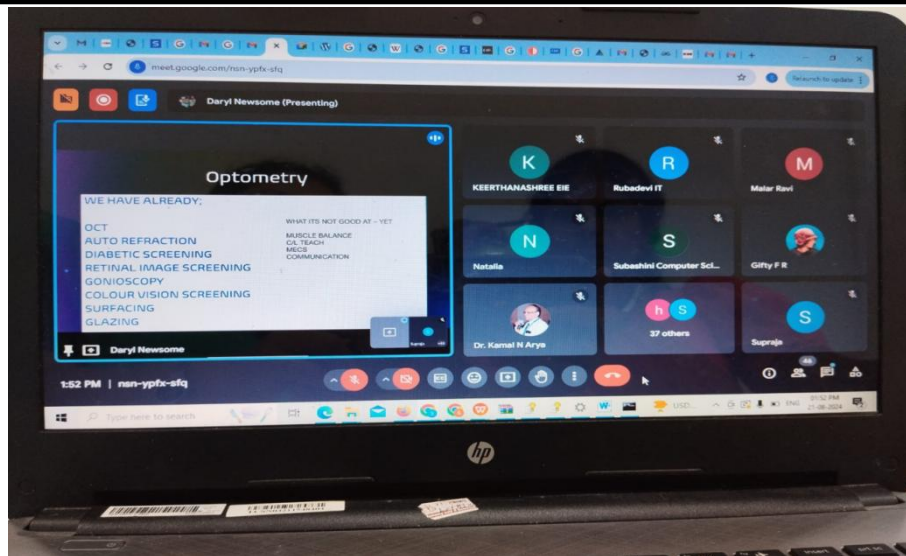
Session: III

Speaker: Mr. Daryl Newsome, Vice President,

Association of BritishDispensing Opticians (ABDO), UK.

Topic: AI IN DISPENSING OPTICS.

- The seminar session was initiated with the biography of the guest speaker. He described the Personalised Progressive lens design using AI made by IOT.
- He described about his personal experience Optain eyetelligence AI technology that detect the systemic disorders using retinal photograph.
- Guest speaker shared his experience about use of AI in Tele optometry, Lens surfacing/glazing which stores the shapes of frames as digital memory.
- He completed his session with elaborated insight on AI GPT – 40 – PLAUD NOTE and its applications in Ethical Dimensions.

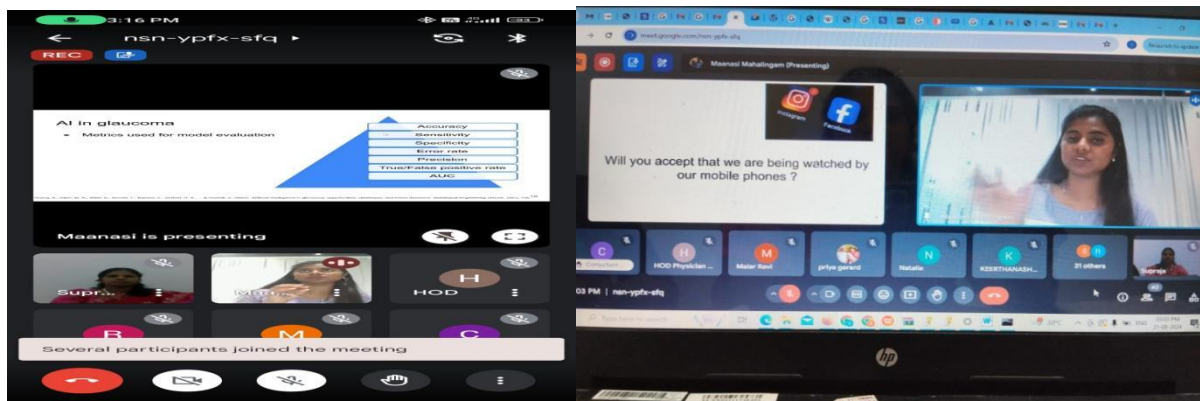


Session: IV

**Speaker: Ms. Maanasi Mahalingam, Doctoral Research,
University of Western Australia, Australia**

Topic: AI IN GLAUCOMA.

- The seminar session was sparked with the biography of the guest speaker. The session started on a lively note with the speaker posing few questions on facts about AI with the participants. She delivered a lecture on Introduction of AI in Glaucoma, model & metrics used for evaluation.
- She explains the comparison between Deep learning & Machine learning models used in Glaucoma evaluation.
- She delivers AI enhanced technology used for glaucoma evaluation, screening, diagnosis, predictive analysis, personalized treatment options and outcomes.



Session - II

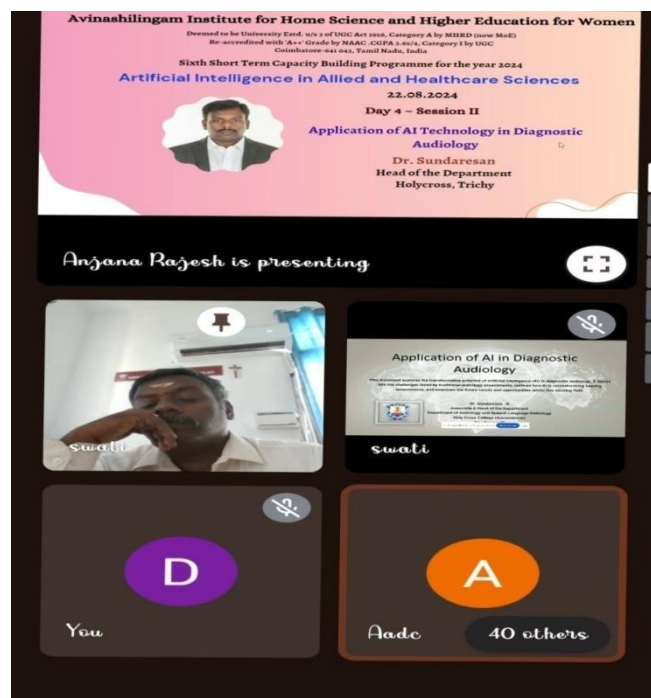
Speaker: Dr.Sunderasan, Prof. in Audiologist and Speech Language Pathologist, Head of the Department, Department of BASLP, Holy Cross, Trichy.

Topic: APPLICATION OF AI TECHNOLOGY IN DIAGNOSTICS AUDIOLOGY.

The seminar session started with self - introduction followed by overview AI based diagnostics techniques that are transforming audiology by leveraging machine learning algorithms to analysis audiometric data, patterns and to predict outcomes.

He also talked about the AI based techniques in diagnostic audiology such as, automated hearing threshold estimation AI powered Oto - acoustic Emissions, Machine learning for tinnitus diagnosis, AI assisted Vestibular disorder identification. And he also explained challenges in traditional audiometry, traditional tympanogram versus AI automated hearing threshold, automated tympanogram. He also explained about AI in Immittance Audiometry which is used worldwide for long period.

And he concluded with future advancements of AI in Cochlear Implants, predictive modelling for Hearing loss and also in personalized sound therapy.



Session - III

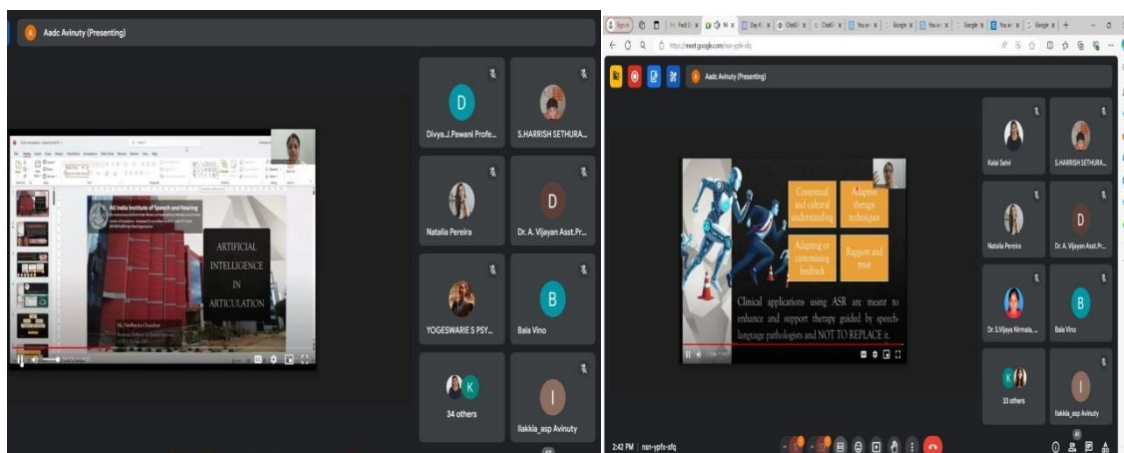
Speaker: Ms. Sindusha Chandran, Assistant Professor in Speech and Sciences, COE, CSLS & CSD.

Topic: ARTIFICIAL INTELLIGENCE IN ARTICULATION

The seminar session started with self - introduction followed by explaining various modules to improve speech in articulation disorders. Modules such as WordPop, Speech Worm , Whack – A – Mole, and so on. Were very informative and interesting.

Also she explained about the Spokeit, Say it Now which will stimulate the language and articulation of the child and also described about the therapy apps which used AI technology.

She also explained about the web based application Isi – Speech Training System which is designed to improve speech and auditory skills for hearing impaired individuals. She concluded with remarks on AI modules that are meant to enhance and support the therapy guided by the speech language pathologist, but never going to replace it.



Session - IV

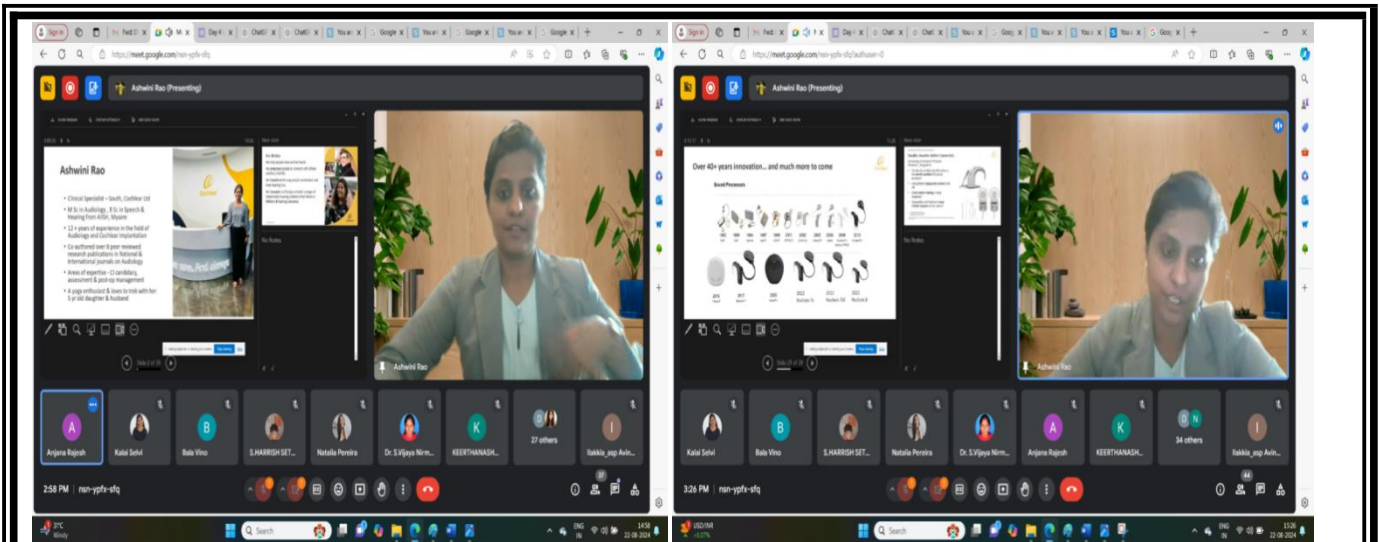
Speaker: Ms. Ashwini P Rao, Clinical Audiologist, Cochlear, South Zone, Bengaluru

Topic: AI Technology in Cochlear Implant Sound Processing

The Seminar Session Started with self – Introduction and followed by she explaining early years modules of Cochlear implantable devices and innovators.

Guest Speaker also spoken about the various technologies in cochlear implants which is currently available. The speaker also mention how technology can help during surgery such as insertion of electrodes, the speed of the insertion and depth of the placement. The technology can be used during intra OP & NRT measures.

Speaker also explained about the latest technology available in sound processing like NRA. Signal Enhancing Technology which improves speech Intelligibility.

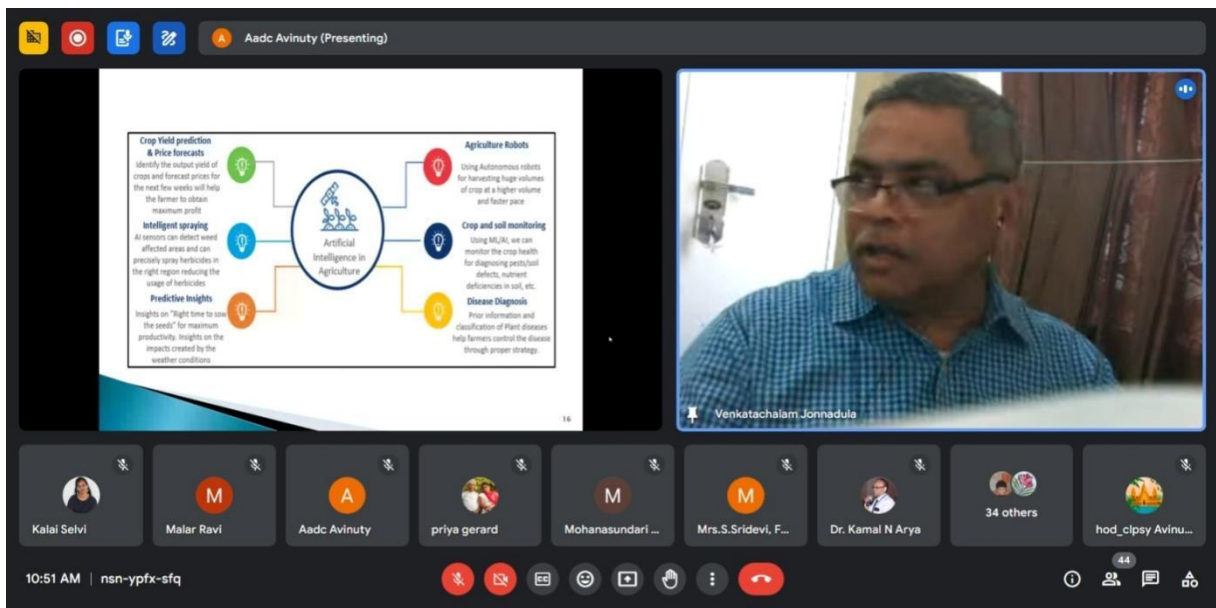


DAY 5: (23.08.2024/FN)

SESSION I

ROLE OF AI IN MENTAL HEALTHCARE

SPEAKER: Dr. J. Venkatachalam, Prof. Dept. of Psychology, Periyar University.



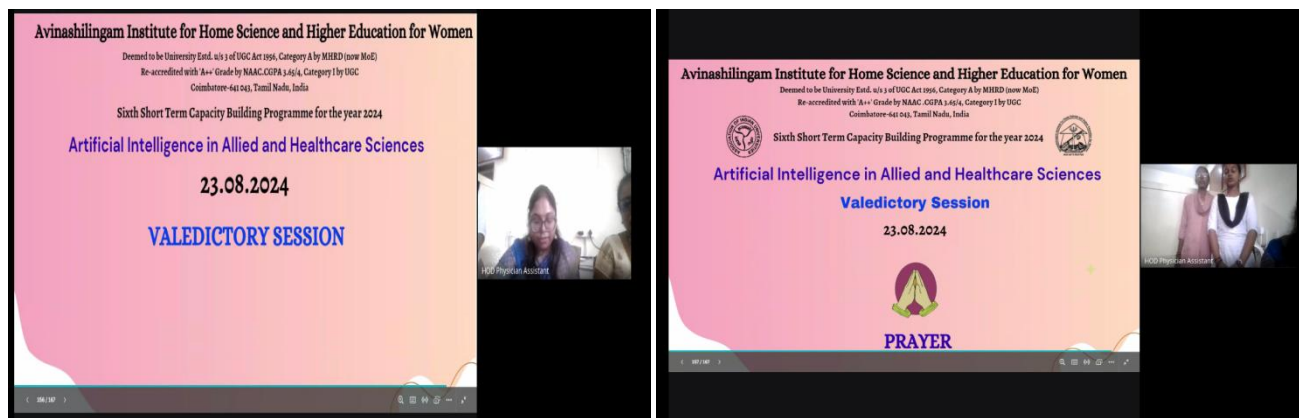
The speaker spoke on what mental health is all about and how AI is prevailing on various aspects of human life right from education, banking, retail operations, production, human resource development & agriculture. He touched upon the various technological advancements particularly in AI and how AI can shape the future of the above mentioned areas. His talk further dealt in detail about how mental health can be re-shaped in terms of diagnosis, treatment and interventions using AI Tools. He highlighted how AI would help in understanding digital interactions to identify mental health disorders and therapist/counselors can use digital histories to identify mental health issues.

The speaker spoke on advanced algorithms to analyze medical images, identifying patterns and anomalies and its impact on faster diagnosis for improvement in accuracy and precision of result. He stressed that Medical imaging process represents Invitro diagnosis of the body to monitor health conditions in a non-invasive method. AI will be helpful for radiologists to make the results more precise and early detection and personalized treatment in medical imaging. He explored AI techniques like CNN and their real – time applications. Moreover, he shared future direction of AI growth, healthcare impact and ethical focus.

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VALEDICTORY SESSION

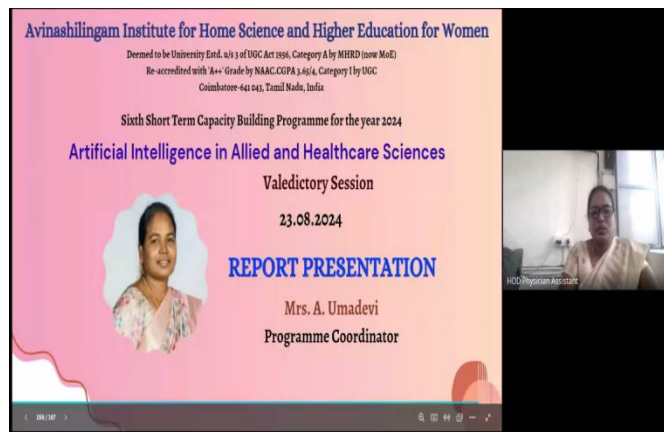
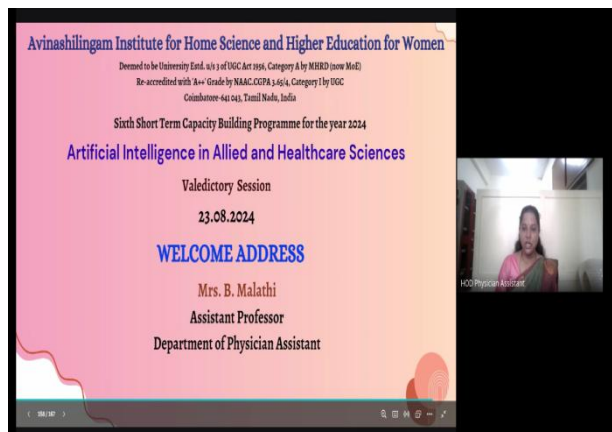
Prayer by BASLP students, School of AHS



The Valedictory function started with the prayer song rendered by the students of BASLP department.

**Welcome address by
Mrs.Malathi.B, Assistant Professor,
Department of Physician Assistant
School of AHS**

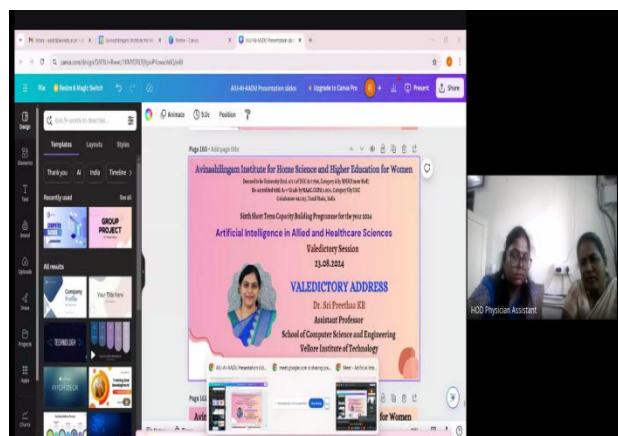
**Report Presentation by
Mrs.Uma Devi.A, Coordinator and HoD,
School of AHS**



Mrs.Malathi.B, Assistant Professor, Department of Physician Assistant, School of AHS welcomed the participants and the guest speakers.

Mrs.Uma Devi.A, Coordinator and HoD, School of AHS presented a brief report of the five day Capacity building program. She presented a report on the various topics discussed by eminent speakers and elaborated on the key takeaways of each and every session.

**Valedictory Address by
Dr.Sri Preethaa K.R., Assistant Professor,
School of Computer Science and Engineering
Vellore Institute of Technology**

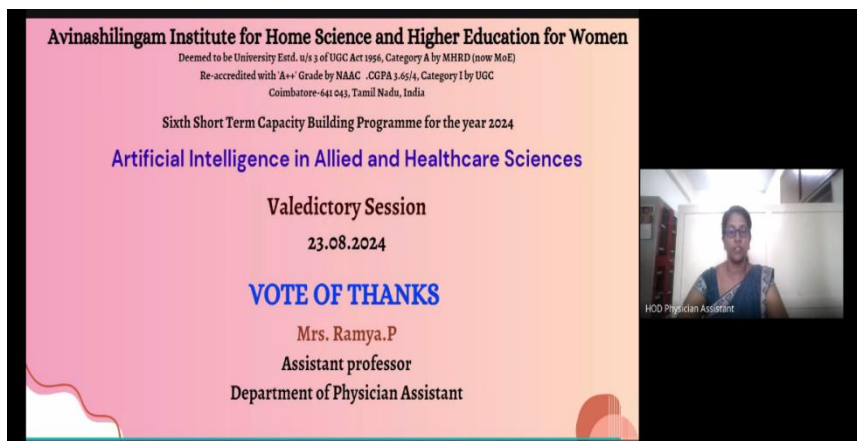


Dr. Sri Preethaa, K.R., Assistant Professor., School of Computer Science and Engineering, VIT, Vellore Tamilnadu delivered Valedictory address on the topic LEVERAGING AI IN PREDICTIVE HEALTH CARE



The speaker briefed about revolution driven by Artificial Intelligence from predicting diseases to personalizing treatment .she shared simulation of human intelligence in machines that are programmed to think like humans and mimic their actions .she insisted about predictive health care uses AI algorithms to analyze data and predict future health out comes enabling early intervention and personalized care and she also shared industry applications of AI in predictive health care Google’s AI model have been used to predict patient out comes. Moreover, she shared future direction of AI integration in healthcare will become more seamless leading to even greater advancements.

**Vote of Thanks by
Mrs.Ramya.P, Assistant Professor,
Department of Physician Assistant
School of AHS**



Mrs.Ramya.P, Assistant Professor,Department of Physician Assistant,School of AHS presented Vote of Thanks. She placed on record our sincere thanks to all higher authorities for their support and motivation. Our sincere gratitude to all the participants for their active involvement

**National Anthem by
BASLP students, School ofAHS**



Participants List

S.No	Name	Designation	Department	Institution/ Organisation Name
1	Ms. Michelle Britto	Research Scholar	Department of Food, Nutrition Dietetics	College of Home Science Nirmala Niketan
2	Dr. JASPER JEMIMA. G D	Assistant Professor	ECONOMICS	Vistas Deemed University
3	Dr. NADIMPALLI NAGA JAYA SRINIKHITA	Research Scholar	PHYSIOTHERAPY	SRM College of Physiotherapy, Kattankulathur, Chennai.
4	Dr. S.VIJAYA NIRMALA	Reader	Oral pathology and microbiology	Sri Ramachandra Dental college &Hospital,Chennai
5	Dr. Sharada T Rajan	Professor	Oral Pathology	Sri Ramachandra Dental College and Hospital,Chennai

6	Dr. Mohamed Suhail S	Medical Officer	Clinical Operations	Quorocare
7	Mrs. S.SRIDEVI	Associate Professor	DEPARTMENT OF CARDIOPULMONARY PHYSIOTHERAPY	Sri Ramachandra Dental College & Hospital, Chennai
8	Mrs. ANGELINE RAJAN	Assistant Professor	Sri Ramachandra Faculty of Physiotherapy	SRIHER
9	Dr. DHILIPHAN KUMAR M	Associate Professor	Management Studies	Velammal College of Engineering and Technology (Autonomous) Madurai
10	Ms. Annu	Assistant Professor	Information Technology	M.O.P VAISHNAV COLLEGE FOR WOMEN
11	Mrs. KEZIA ANGELINE J	Research Scholar (Full-time)	School of Public Health	SRM Institute Of Science & Technology in Kattankolathur, Chengalpattu
12	Dr. Divya Sundaram	Assistant Professor	Psychology	CHRIST (Deemed to be University)
13	Ms. Shakthi Roshini G	Teaching Assistant	Hospital Administration	PSG College of Arts & Science, Coimbatore.
14	Mrs. Vishnu Priya T M	Assistant professor	Physiotherapy	Sathyabama institute for science and technology
15	Dr. SEEMA RAMESH CHAUDHARY	Associate Professor	Computer Science & Engineering	Maharashtra Institute of Technology (MIT), Chhatrapati Sambhajnagar, Maharashtra
16	Mrs. P.SUMATHI	Research Scholar	ZOOLOGY	THE MADURA COLLEGE, MADURAI

17	Mrs. Asi Thomas	Lecturer	Biochemistry	Ganga college of Nursing
18	Mr. RAJAN N.D.	Advisor to School of Rehabilitation and Behavioral Sciences	Rehabilitation and Behavioral Sciences	Vinayaka Mission's Research Foundation- Deemed to be University
19	Dr. Renuga S	Project Technical support III	Oralpathology	Sri Ramachandra Dental college
20	Dr. R. Rajeswari	Consultant-Research	Oralpathology	Sri Ramachandra Dental college
21	Mrs. Hema Latha J	Physician Assistant	Orthopedics	Ganga Hospital
22	Ms. Safira Sahana Rehman	Faculty	Optometry	Inlife Institute of Vision Science and Management
23	Dr. MEENAKSHI BATRA, PhD, FELLOW (ACOT)	LECTURER (OCCUPATIONAL THERAPY)	OCCUPATIONAL THERAPY	Deendayal Upadhyaya National Institute for Persons with Physical Disabilities (PDUNIPPD), New Delhi.
24	Dr. R. Yamuna	Assistant Professor	Zoology	PSGR Krishnammal College for Women
25	Dr. P. SUSHEELA	Associate Professor and Head	Zoology	PSGR KRISHNAMMAL COLLEGE FOR WOMEN
26	Dr. S Yogeswarie	Assistant Professor	Psychology	CHRIST (Deemed to be University), Bangalore
27	Mrs. N.INDHU	ASSISTANT PROFESSOR	ELECTRONICS AND INSTRUMENTATION ENGINEERING	KONGU ENGINEERING COLLEGE

28	Mrs. T.KEERTHANASHREE	ASSISTANT PROFESSOR	ELECTRONICS AND INSTRUMENTATI ON ENGINEERING	KONGU ENGINEERING COLLEGE
29	Dr. M.Suguna Devakumari	Assistant Professor	Agriculture	Karunya Institute of Technology and Sciences, Coimbatore
30	Ms. OLUWATOMISIN MERCY ARO-GORDON	MBBS Student	Medical School	American University of Barbados
31	Ms. Demilade Hannah ADESINA	MSc Student in Epidemiology	Epidemiology and Medical Statistics	University of Ibadan
32	Mrs. Kalaiselvi Sivabalan	Research Scholar	Computer Science (Life science integrated research)	Sathyabama Institute of Science and Technology
33	Dr. Sumathi.S	Professor of Biochemistry	Biochemistry Biotechnology and Bioinformatics	Avinashilingam Institute for Home Science and Higher Education for Women
34	Dr. Kamal Narayan Arya	Lecturer (Occupational therapy)	Occupational therapy	Pt. Deendayal Upadhyaya National Institute for Persons with Physical Disabilities, New Delhi
35	Mrs. Cathrine . S	Associate Professor	Physiotherapy	RVS College of Physiotherapy
36	Dr. Amit Kumar Vimal	Demonstrator PO	Prosthetics and Orthotics	Pt. Deendayal Upadhyaya National Institute for Persons with Physical Disabilities, New Delhi
37	Mrs. Mahalakshmi.S	Assistant professor	Physiotherapy	RVS College of Physiotherapy

38	Ms. Smita Nayak	Demonstrator(P &O)	Prosthetics and Orthotics	Pt. Deendayal Upadhyaya National Institute For Persons with Physical Disabilities, New Delhi
39	Mrs. Divya J Pawani	Professor	Physiotherapy	RVS College of Physiotherapy
40	Mrs. Niranjana Shalini. R	Assistant Professor	Physician Assistant	Avinashilingam Institute for Home Science and Higher Education for Women
41	Mr. Syed Aneef Ahmed	Graduate	B.tech- Biotechnology	Dr. M.G.R. Educational And Research Institute university
42	Mr. S. Harrish Sethuram	Graduate	B.Tech - BIOTECHNOLOGY	Dr. M.G.R. Educational and Research Institute
43	Mrs. G. Rubadevi	Assistant Professor	Information Technology	PSGR KRISHNAMMAL COLLEGE FOR WOMEN
44	Mr. Sweshadev Nayak.	Associate Professor	Physiotherapy	RVS College of Physiotherapy
45	Mrs. G.N.K. Parameswari	Associate Professor	Community Health Nursing	Vijay Marie College of Nursing
46	Dr.R.VENDHAN	Professor	Education	-
47	Ms. Suhashini V	Pediatric physiotherapist	Department of Pediatric physiotherapy	Snowdrop Therapy Centre, Bangalore
48	Dr. PRACHI RAJ MEENA	LECTURER	PHYSIOTHERAPY	PANDIT DEENDAYAL UPADHYAYA NATIONAL INSTITUTE FOR THE PERSONS WITH PHYSICAL DISABILITIES

49	Dr. RAJ KUMAR MEENA	Professor & Principal	PHYSIOTHERAPY	KAILASH INSTITUTE OF NURSING AND PARAMEDICAL SCIENCES
50	Dr. A Vijayan	Assistant professor	Microbiology	FAHS SRM IST trichy
51	Mrs. Malarvizhi Ravi	Asst. Professor	Home Science	Bharathidasan Government College for Women, Puducherry
52	Mr. MARUTHI M V	Research Scholar	Commerce	Bangalore University
53	Dr. M. DEVENDRA	PROFESSOR & PRINCIPAL	TOURISM AND HOSPITALITY MANAGEMENT	MAHARISHI INSTITUTE OF MASTER MANAGEMENT
54	Mrs. Anasuya Mani MP	Assistant Professor	Pharmacology	Jain School of Allied Healthcare and Sciences
55	Mrs. Swapna. C	Assistant professor	Allied and Health care Services	Avinashilingam Institute for Home Science and Higher Education for Women
56	Mrs. Preeta Singh	Assistant Professor	Department of BASLP	Avinashilingam Institute for Home Science and Higher Education for Women
57	Ms. Mohana Sundari S.B	Teaching Assistant	Optometry	Avinashilingam Institute for Home Science and Higher Education for Women
58	Dr. Gifty F R	Chief Dentist	Department of Dentistry	Sacred heart hospital, Kumbakonam
59	Dr. Anoop Aggarwal	Senior Physiotherapist	Physiotherapy Department	Pandit Deendayal Upadhyay National institute for person with physical disabilities (Divyangjan)

60	Mrs. Ilakkia N	Assistant professor	Audiology and speech language pathology	Avinashilingam Institute for home science and higher education for women
61	Dr. D. PRADEEPA	Associate Professor	Biochemistry	Dr. N.G.P. Arts and Science College
62	Dr. Gowri S	Professor and Head	Biochemistry	Dr.N.G.P. Arts and Science college
63	Ms. Natalia Pereira	Head of Training & Quality	NutraSciences	Reework- Shamrock Pharma

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 Allied and Healthcare Sciences

Certificate No: AIU - AI - AADC/ 2024 /06/001

CERTIFICATE OF PARTICIPATION

This is to certify that

Ms. Michelle Britto
 Research scholar, Department of Foods, Nutrition and Dietetics
 Sri Ramachandra Dental College and Hospital, Chennai

has participated in the Short-Term Capacity Building Programme on
“Artificial Intelligence in Allied and Healthcare Sciences” conducted by
 AIU - Avinashilingam Institute – Academic & Administrative Development Centre (AIU - AI- AADC) &
 Centre for Machine Learning and Intelligence (CMLI) & School of Allied and Healthcare Sciences
 from 19/08/2024 to 23/08/2024 and her performance was Very Good.


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



Mrs. A. Umadevi
 Programme
 Coordinator


Dr. P. Subashini
 Programme
 Coordinator


Mrs. Ranjana Parihar
 Joint Secretary Printing
 & Publications, 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

Sixth Short-Term Capacity-Building Program on ‘Artificial Intelligence in Allied and Healthcare Sciences’

Day/Date	Session I 10.00 to 11 am	Session II 11.30 to 12.30 pm	Session III 1.30 to 02.30 pm	Session IV 3.00 to 4.00 pm
19 th Aug’ 2024 Monday	<p align="center">Presidential Address Inauguration Session</p> <p>Application of AI in Healthcare Prof. Dr. Ashok Thiakarajan Chief Executive Officer, Meridian Hospital, Chennai. Email : ceo@meridian-hospital.com Mobile : 9176520777</p>	<p>AI-Enhanced Diagnostic Imaging Dr. Vidhya Prathap MD Physician, (UKr.), FIC (UK)</p> <p>Email: prathavidhya95@gmail.com Mobile : 7736174036</p>	<p>Ethical Dimensions of AI in Healthcare Dr. R. Chandrasekhar Menon Director, Global Institute of Healthcare Analytics, USA.</p> <p>Email : swiftmba@gmail.com Mobile : 9442226036/9611311136</p>	<p>AI Integration in Healthcare and Clinical Medicine Dr. Vimal Prakash Fellowship, Department of Cardiothoracic Surgery, St Johns Medical College Hospital, Bengaluru, Karnataka. Email: vimalprakash711@gmail.com Mobile : 9384499447</p>
20 th Aug’ 2024 Tuesday	<p>Future Trend In AI And Physiotherapy: Insights Into Upcoming Innovations. Dr. Zeeshan ali Associate Professor, Krupanudhi College of Physiotherapy, Bengaluru, Karnataka</p> <p>Email : zeeshan@krupanidhi.edu.in Mobile : 9620060284</p>	<p>Future Of Digital Healthcare In Rural India Dr. Richa singh Founder & CEO at Perfect Bounce Healthcare Pvt Ltd, Bengaluru, Karnataka, India</p> <p>Email : contact@perfectbounce.in Mobile : 9886272166</p>	<p>AI enabled Wearable Diagnostic Devices Dr. Venkatalakshmi Professor and Head, Department of Artificial Intelligence and Data sciences, Sri Krishna College of Engineering & Technology, Coimbatore</p> <p>Email : venkatalakshmis@skcet.ac.in</p>	<p>AI Based Health Care for Elderly and Diabetic People Dr. V Sampath Kumar Dean Research and Faculty Entrepreneur, Christ College of Engineering, Kerala.</p>
21 st Aug’ 2024 Wednesday	<p>AI in optometry Dr. Kalpa Negiloni Clinical research AI&ML – Remidio, Bengaluru</p> <p>Email : kalpa.n@remidio.com Mobile : 9840099478</p>	<p>AI powered diagnostic tools for eye diseases Mr. Vivek Sugauthan. R Assistant Professor, SRM University, Chennai, Tamil Nadu</p> <p>Email : vivekr@srmist.edu.in</p>	<p>AI in Dispensing Optics Mr. Daryl Newsome Vice President, Association of British Opticians, UK</p> <p>Email : darylnewsome@me.com Mobile : +447454022804</p>	<p>AI in Ophthalmic diagnostics Ms. Maanasi Mahalingm Doctoral Research, University of Western Australia, Australia</p> <p>Email : maanu.atchu@gmail.com Mobile : +917338925362</p>
22 nd Aug’ 2024 Thursday	<p>AI Technology in cochlear Implant sound processing Dr. Lalita Raja Assistant Professor, Centre for Advanced Studies in Linguistics, Annamalai University, Chithamparam Email : lalitharajaling@gmail.com Mobile : 9443184675</p>	<p>Application of AI Technology in Diagnostic Audiology Dr. Sundaresan Head of the Department, Holycross college, Trichy</p> <p>Email : sundaresanslp@yahoo.com Mobile : 9585500626</p>	<p>AI Technology on Articulation Ms. Sindhusha Chandran Assistant Professor, AIISH, Mysuru.</p> <p>Email : sindhushaclspl@gmail.com Mobile : 9599204476</p>	<p>Application of AI in Breaking Speech & Language Barriers Ms. Ashwini. P. Rao Clinical Audiologist, Cochlear, South Zone, Bengaluru</p> <p>Email : arao@cochlear.com Mobile : 9035213651</p>
23 rd Aug’ 2024 Friday	<p>Role of AI in Mental Health Services Prof.(Dr)J. Venkatachalam Department of Psychology Periyar University, Salem</p>	<p>Impact of VR and Digital Isolation on Mental Health Dr. Stephen Babu A Assistant Professor/ Human Resource Trainer, St . Joseph’s University, Bangalore.</p>	<p>Leveraging AI for predictive health care Dr. Yuvaraj N Associate Professor, Department of Information Security, School of Computer Science and Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu.</p> <p>Email : yuvaraj.n@vit.ac.in Mobile : 9843420108</p>	<p>AI in Public Health Dr.Sri Preethaa KR Assistant Professor (Sr Grade 2), School of Computer Science and Engineering, Department of IoT, Vellore Institute of Technology, Vellore, Tamil Nadu.</p> <p>Email : sripreeethaa.kr@vit.ac.in Mobile : 9843420109</p>



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 Allied and Healthcare Sciences**

Jointly organizes

Sixth Short Term Capacity Building Programme for the year 2024

on

**Artificial Intelligence in Allied and
Healthcare Sciences**

19.08.2024 to 23.08.2024



Mode : Online

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. H. Indu, Registrar i/c.



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**

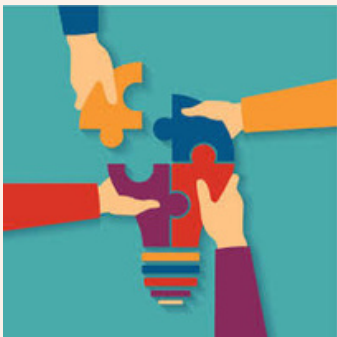


VISION

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



- This approach moves away from the traditional one-size-fits-all model towards precision medicine, where therapies are optimized based on the unique characteristics of each patient. For example, AI can predict how patients will respond to specific medications, allowing healthcare providers to prescribe the most effective treatment with fewer side effects.



- Artificial Intelligence (AI) is rapidly reshaping the landscape of healthcare, offering unprecedented opportunities to enhance diagnosis, treatment, patient care, and operational efficiency. This capacity building program explores the profound impact of AI in healthcare, highlighting its benefits, challenges, and ethical implications.
- AI's integration into healthcare begins with its ability to process vast amounts of data swiftly and accurately. Medical imaging, for instance, benefits immensely from AI algorithms that analyze complex scans such as MRIs and CT scans, aiding radiologists in detecting subtle anomalies that might be missed by human eyes. This capability not only improves diagnostic accuracy but also speeds up the interpretation process, potentially leading to earlier interventions and improved patient outcomes.
- Moreover, AI plays a crucial role in personalized medicine by analyzing genetic data, patient history, and other variables to tailor treatments to individual patients.

- In addition to diagnosis and treatment, AI enhances patient care through remote monitoring and predictive analytic. Wearable devices equipped with AI algorithms can continuously monitor vital signs and other health metrics, alerting healthcare providers to potential issues before they escalate. This proactive approach not only improves patient safety but also reduces hospital admissions and healthcare costs.
- Despite AI advancements, many societies, especially low-income and developing countries, lack access to these technologies, raising ethical concerns. Privacy and data protection are crucial. The WHO emphasizes six core principles for AI in healthcare: protect autonomy, promote well-being and safety, ensure transparency, foster accountability, ensure equity, and support sustainability.

OBJECTIVES

- Explore the cutting-edge of AI in healthcare.
- Foster a deeper understanding of the transformative potential of AI technologies in improving healthcare delivery.
- Equip participants with the knowledge and resources needed to implement AI solutions in their respective organizations.
- Enhance clinical decision-making and streamline administrative tasks.
- Empower healthcare professionals to effectively use AI.

TARGET PARTICIPANTS

This program is designed for faculty members and research scholars from related disciplines of Higher Education Institutions (HEIs), Health care administrators, Medical professionals, clinical instructors, practitioners.

Duration : 19.08.24 to 23.08.24

(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: 19.08.2024

- Application of AI in Healthcare
- AI Enhanced Diagnostics imaging
- Ethical Dimensions of AI in Healthcare
- AI Integration in Healthcare and Clinical Medicine

Day 2: Date: 20.08.2024

- Future Trend In AI And Physiotherapy: Insights Into Upcoming Innovations.
- Future Of Digital Healthcare In Rural India
- AI enabled Wearable Diagnostic Devices
- Precision Instrumentation in Medical and Surgical Care



Day 3: Date: 21.08.2024

- AI in Optometry
- AI Powered Diagnostic Tools for Eye Diseases
- AI in Ophthalmic Diagnostics
- AI in Dispensing Optics

Day 4: Date: 22.08.2024

- AI Technology in cochlear Implant sound processing
- Application of AI Technology in Diagnostic Audiology
- AI Technology on Articulation
- Application of AI in Breaking Speech & Language Barriers



Day 5: Date: 23.08.2024

- **Role of AI in Mental Health Services**
- **Impact of VR and Digital Isolation on Mental Health**
- **Leveraging AI for predictive health care**
- **AI in Public Health**

LIST OF RESOURCE PERSONS

- **Prof. Dr. Ashok Thiakarajan, Chief Executive Officer, Meridian Hospital, Chennai.**
- **Dr. R. Chandrasekhar Menon, Director, Global Institute of Healthcare Analytics, USA.**
- **Dr. Vimal Prakash, Department of Cardiothoracic Surgery, St Johns Medical College Hospital, Bengaluru, Karnataka.**
- **Dr. Vidhya Prathap, Duty Medical Officer, General Medicine, United Kingdom.**
- **Dr. Richa Singh, Founder & CEO at Perfect Bounce Healthcare Pvt Ltd, Bengaluru, Karnataka, India.**
- **Dr. Kalpa Negiloni, Clinical Research, AI&ML – Remidio, Bengaluru.**
- **Ms. Maanasi Mahalingam, Doctoral Research, University of Western Australia, Australia**
- **Dr. V Sampath Kumar, Dean Research and Faculty Entrepreneur, Christ College of Engineering, Kerala**

- **Mr. Daryl Newsome, Vice President, Association of British Dispensing Opticians, UK.**
- **Ms. Ashwini. P. Rao, Clinical Audiologist, Cochlear, South Zone, Bengaluru.**
- **Dr. Sundaresan, Head of the Department, Holycross, Trichy.**
- **Dr. Venkatalakshmi, Professor and Head, Department of Artificial Intelligence and Data sciences, Sri Krishna College of Engineering & Technology, Coimbatore.**
- **Prof.(Dr)J. Venkatachalam, Professor, Department of Psychology Periyar University, Salem**
- **Dr. Zeeshan ali, Associate Professor, Krupanudhi College of Physiotherapy, Bengaluru, Karnataka.**
- **Dr. Yuvaraj N, Associate Professor, Department of Information Security, School of Computer Science and Engineering, Vellore Institute of Technology, Vellore.**
- **Ms. Sindhusa Chandran, Assistant Professor, AIISH, Mysore.**
- **Dr. Lalita Raja, Assistant Professor, Centre for Advanced Studies in Linguistics, Annamalai University, Chithamparam.**
- **Mr. Vivek Sugauthan. R, Assistant Professor, SRM University, Chennai, Tamil Nadu.**
- **Dr. Sri Preethaa KR, Assistant Professor, School of Computer Science and Engineering, Department of IoT, Vellore Institute of Technology, Vellore, Tamil Nadu.**
- **Dr. Stephen Babu A, Assistant Professor/ Human Resource Trainer St . Joseph's University, Bangalore**



REGISTRATION



REGISTRATION LINK :
<https://forms.gle/tXo4qhzA6XxZw2n66>

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

Mrs. RANJANA PARIHAR, Joint Secretary, Printing & Publications, AIU

PROGRAMME COORDINATORS

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Professor of Computer Science

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Mobile : 9659172043

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,
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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**
- **Mrs. Ranjana Parihar, Joint Secretary, Printing & Publications, 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
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