

**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 Re-accredited with 'A++' Grade by NAAC.CGPA 3.65/4,
Category I by UGC Coimbatore-641 043, Tamil Nadu, India**



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

Organises

Short Term Capacity Building Programme

on

**Artificial Intelligence
in Education**

19.06.2023 to 30.06.2023

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 Saradhamani 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; 84th 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, Avinashilingam Trust, Professor S. P. Thyagarajan, Chancellor, Dr. V. Bharathi Harishankar, Vice Chancellor and Dr. S. Kowsalya, Registrar.

ASSOCIATION OF INDIAN UNIVERSITIES – A BRIEF INTRODUCTION

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 921 members (907 Indian & 14 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 staff / 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

Education in the 21st century faces a series of challenges, including training in mobile and ubiquitous contexts, and the improvement of the didactic processes associated with online and face-to-face teaching. The world of education is constantly changing. With state-of-the-art technology, new pedagogy and teaching methods are being explored all the time. Artificial Intelligence (AI) is one such domain that has gained popularity in recent years. Various transformations are happening in the educational field, especially in primary and secondary schools. With the development of computing and information processing techniques, artificial intelligence has been widely applied in educational practices such as intelligent tutoring systems, teaching robots, learning analytics, dashboards, adaptive learning systems, human-computer interactions, etc. The new paradigm also uses virtual or augmented reality technologies to enhance the learning experience. AI has been considered as a powerful tool to facilitate new paradigms for instructional design, technological development, and education research that are otherwise impossible to develop in the traditional education modes.

This Faculty Development Programme will give an insight into what Artificial Intelligence is about, how it can be used for education to leverage the learning experience. This programme makes a critical platform that makes the participants aware of theoretical, pedagogical, and computational aspects of AI by proposing three AI paradigms that use AI techniques in varied ways to address the learning and instructional issues in education. Particularly, this programme offers a reference framework for future AI practice, research, and development, that has potential to foster learner-centered learning, human agency, and lifelong learning in the current innovation-driven knowledge age.

OBJECTIVES

- To introduce the major paradigms in AI for Education including Evolution, theoretical foundations, conceptual research, and practical implementations
- To orient the participants on AI as a component of Teaching – Learning and Evaluation process
- To discuss the impact of direct cognitive learning while learners are recipients of AI based Education
- To map the available Technologies with pedagogies and intended research outcomes
- To inculcate the culture of collaborative teaching and learning aimed at iterative development of the learner-centered, data-driven, personalized learning.

TARGET PARTICIPANTS

Deans, Deputy Deans, Directors, College Principals, Heads of the Departments and other Administrative and Academic level officials, Counsellors, Academicians, Tech based Employees.

Mode of delivery : Online

Duration : 19.06.2023 to 30.06.2023 (10 Days Programme)

TENTATIVE LIST OF RESOURCE PERSONS

- Prof. S.P.THYGARAJAN, Chancellor, Avinashilingam Institute
- Prof. V. BHARATHI HARISHANKAR, Vice Chancellor, Avinashilingam Institute
- Prof. Richard Heeks, Director, Centre for Digital Development. University of Manchester, UK
- Prof. Vasudha Kamat, Chairperson, Governing Board, Consortium of Educational Communication - CEC (Inter-University Center of UGC)
- Dr. Mangala Sunder Krishnan, Professor Emeritus, Indian Institute of Technology Madras
- Leila Sujir, Professor Emerita, Concordia University, Montreal, Canada
- Dr. SHUBHRA GAUR, Professor, MICA, Ahmedabad.
- Dr. Basheerhamad Shadrach, Director, Commonwealth Educational Media Centre for Asia
- Dr. Ishan Abeywardena, Associate Director, Centre for Extended Learning, University of Waterloo
- Dr. Stella Lee, Athabasca University, Canada
- Prof. Aleksander Petrovic, Vice President and Faculty of Philology, University of Belgrade, Serbia
- Prof. Andrew Edwin Thangaraj, IIT Madras, Chennai
- Sanjay Bharathi Kumar, Group General Manager, Telecommunications Consultants India Ltd (TCIL)
- Aleksandra Ivanovic, Researcher, University of Belgrade, Serbia
- Mr. Vaidya Nathan, Founder & CEO, Classle Knowledge Pvt. Ltd
- Dr. Hema Murthy, Professor, IIT Madras, Chennai
- Mr. Sanjay Gupta, School of Sciences, IGNOU
- Mr. Sanjay Rawat, IIIT, Hyderabad
- Prof. Vivek Suresh Kumar, Athabasca University, Canada
- Prof. George Ghinea, Brunel University, London

PROGRAMME SCHEDULE

Day: 1, Date: 19.06.2023

- 09.30 am to 11.00 am : Inauguration & Special Address
- 11.15 am to 12.45 pm : Introduction to AI in Education
- 01.30 pm to 03.00 pm : Activity – I Pre-assessment of AI in Education
- 03.15 pm to 04.45 pm : Paradigms of AI in Education

Day: 2, Date: 20.06.2023

- 09.30 am to 11.00 am : AI Directed knowledge models and Cognitive Learning
- 11.15 am to 12.45 pm : Intelligent Tutoring systems
- 01.30 pm to 03.00 pm : Activity – II Building a framework for ITS
- 03.15 pm to 04.45 pm : AI supported pedagogical Actions

Day: 3, Date: 21.06.2023

- 09.30 am to 11.00 am : AI supported Learning Environment
- 11.15 am to 12.45 pm : Exploratory Learning Environments
- 01.30 pm to 03.00 pm : Collaboration intervention Model
- 03.15 pm to 04.45 pm : Activity – III Learning Tools

Day: 4, Date: 22.06.2023

- 09.30 am to 11.00 am : Introduction to ChatGPT
- 11.15 am to 12.45 pm : Activity – IV Demonstration of ChatGPT
- 01.30 pm to 03.00 pm : Activity – V ChatGPT for Teachers
- 03.15 pm to 04.45 pm : Activity – VI ChatGPT for Learners

Day: 5, Date: 23.06.2023

- 09.30 am to 11.00 am : Overview for Augmented Reality in Education
- 11.15 am to 12.45 pm : User Interface Development
- 01.30 pm to 03.00 pm : Activity – VII Hands-on workshop on Augmented Reality
- 03.15 pm to 04.45 pm : Activity – VIII Hands-on workshop on Augmented Reality

PROGRAMME SCHEDULE

Day: 6, Date: 26.06.2023

- 09.30 am to 11.00 am** : Activity – IX Augmented Reality Case study
- 11.15 am to 12.45 pm** : Activity – X Augmented Reality Case study
- 01.30 pm to 03.00 pm** : Activity – XI Augmented Reality Case study
- 03.15 pm to 04.45 pm** : Activity – XII Augmented Reality Case study

Day: 7, Date: 27.06.2023

- 09.30 am to 11.00 am** : Learning Analytics
- 11.15 am to 12.45 pm** : Multimodal Learning Analytics research : challenges and solutions
- 01.30 pm to 03.00 pm** : Activity – XIII Learning multimodal analytics
- 03.15 pm to 04.45 pm** : Designing a Multimodal Dashboard for Collaborative Analytics

Day: 8, Date: 28.06.2023

- 09.30 am to 11.00 am** : Utilizing crowdsourcing and machine learning in education
- 11.15 am to 12.45 pm** : Educational application tools using crowdsourcing and machine learning
- 01.30 pm to 03.00 pm** : Activity – VII , Crowdsourcing Tools
- 03.15 pm to 04.45 pm** : Automated Programming Assessment (APA) System

Day: 9, Date: 29.06.2023

- 09.30 am to 11.00 am** : Mulsemmedia in Education
- 11.15 am to 12.45 pm** : Multi-sensorial eBooks
- 01.30 pm to 03.00 pm** : Activity – VII Demonstration of Mulsemmedia in Education
- 03.15 pm to 04.45 pm** : Technology Enhanced Learning

Day: 10, Date: 30.06.2023

- 09.30 am to 11.00 am** : AI for Educators
- 11.15 am to 12.45 pm** : CANVA - Demonstration
- 01.30 pm to 03.00 pm** : Activity – VIII Post Assessment of AI in Education
- 03.15 pm to 04.45 pm** : Valediction and Feedback

REGISTRATION

REGISTRATION LINK : <https://forms.gle/uFCTXdw6wrN5dBZHA>

FEE : Rs. 2,000

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 : 917248759

IFSC Code : IDIB000A005

AI ADVISORS

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

Prof. S. P. THYAGARAJAN, Chancellor

Dr. V. BHARATHI HARISHANKAR, Vice Chancellor

Dr. S. KOWSALYA, Registrar

AIU ADVISORS

Dr. PANKAJ MITTAL, Secretary General, AIU

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

PROGRAMME COORDINATOR

Dr. P.SUBASHINI,

Professor of Computer Science

Coordinator, Centre for Machine Learning and Intelligence

Avinashilingam Institute for Home Science and Higher Education for Women

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

REACH US AT:

Dr. K. RAMYA

Nodal Officer

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

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