

Avinashilingam Institute for Home Science and Higher Education for Women



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

**&
SDG Committee**

**&
Department of Civil Engineering**

Jointly organizes

**Fourth Short Term Capacity Building Programme for the year 2026
on**

**Sustainable Cities and Communities: Leveraging
Digital Technologies and Innovation for
Urban Transformation**

20.07.2026 to 24.07.2026



Mode : Online

 **Via Google Meet**



ABOUT THE INSTITUTE

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.

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.

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 higher education institutions under its ambit, with 1,088 institutions, including 16 foreign associate members from other countries. The membership of AIU includes all types of universities, such as 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.





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 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 to :

- 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



ABOUT THE PROGRAMME

- Rapid urbanization has transformed cities into centres of economic growth and innovation while creating challenges such as pollution, resource depletion, waste management, mobility, and infrastructure development. Addressing these issues requires sustainable, inclusive, and technology-driven approaches.
- Aligned with Sustainable Development Goal (SDG) 11: Sustainable Cities and Communities, this programme also integrates SDG 9 (Industry, Innovation and Infrastructure) and SDG 4 (Quality Education) to promote resilient and future-ready urban development.

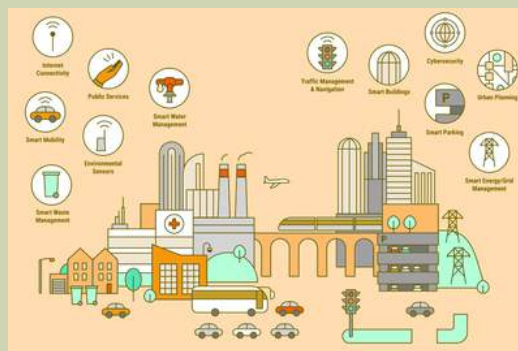


- The programme introduces participants to emerging digital technologies such as **Artificial Intelligence (AI), Internet of Things (IoT), Geographic Information Systems (GIS), Big Data Analytics, and Smart Sensors**, demonstrating their role in sustainable urban planning, governance, and resource management.

- It emphasizes interdisciplinary learning, innovation, and practical applications that support smart cities and sustainable communities.



- Designed for teaching faculty and higher education professionals, this five-day capacity building programme equips participants with the knowledge and practical skills to integrate urban sustainability concepts and digital technologies into teaching, research, and community engagement.
- Through expert sessions, case studies, and hands-on learning, participants will be empowered to develop innovative, solution-oriented approaches that contribute to sustainable urban transformation.



OBJECTIVES

- Integrate SDG 11 concepts into curriculum through interdisciplinary and outcome-based teaching.
- Equip faculty with digital tools such as AI, GIS, and Data Analytics for urban education.
- Develop the capacity to implement sustainable urban initiatives at individual, student, and institutional levels.

TARGET PARTICIPANTS

This programme is designed for teaching faculty, research scholars, and academic leaders from Higher Education Institutions, particularly those involved in curriculum design, OBE, interdisciplinary programmes, community engagement, and institutional development, including Deans, HoDs, Programme Coordinators, SDG Coordinators, and IQAC Coordinators.

Duration : 20.07.26 to 24.07.26

(5 Days Programme)

Time : 10:30 am to 03:45pm

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

PROGRAMME SCHEDULE

— Building Sustainable Cities, Empowering Futures —

DAY
1
20.07.2026

Urban Sustainability, Systems
Thinking and Curriculum Integration



Session I

Urbanization and Sustainability
Challenges: Systems Thinking
and Sectoral Interlinkages



Session II

SDG 11 Frameworks, National
Urban Policies and
Institutional Role



Session III

Discipline-Wise Integration of
Urban Sustainability Across
Domains



Session IV

Designing Outcome-Based
Urban Curriculum: COs,
Learning Activities and Alignment



SUSTAINABLE
For a Greener Tomorrow

DAY
2
21.07.2026

Digital Technologies for
Smart and Sustainable Cities



Session I

AI and Data Analytics
for Urban Planning and
Decision Making



Session II

GIS and Spatial Mapping
for Urban Analysis and
Teaching Applications



Session III

Smart Infrastructure and
IoT in Urban Systems
(Mobility, Energy, Water, Waste)



Session IV

Digital Simulations and Urban
Scenario Modelling for
Experiential Learning



INCLUSIVE
For Equitable Cities

DAY
3
22.07.2026

Urban Systems and
Sustainable Resource Management



Session I

Sustainable Urban Mobility
and Transport Systems



Session II

Urban Water Management,
Waste Management and
Circular Practices



Session III

Energy-Efficient Buildings
and Green Infrastructure
in Cities



Session IV

Urban Livelihoods, Inclusion
and Affordable Housing



INNOVATIVE
Through Technology
and Ideas

DAY
4
23.07.2026

Community Engagement,
Innovation and Urban Governance



Session I

Designing Student-Led Urban
Projects, Living Labs and
Innovation Challenges



Session II

Community-Based Urban
Interventions and
Participatory Planning



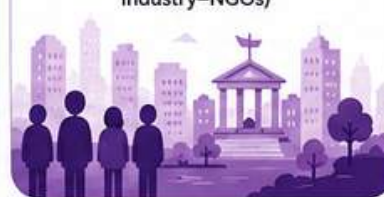
Session III

Digital Platforms for Civic
Engagement and
Urban Governance



Session IV

Multi-Stakeholder Collaboration
in Urban Development
(Academia-Government-
Industry-NGOs)



COLLABORATIVE
Stronger Together

DAY
5
24.07.2026

Implementation, Assessment and
Urban Transformation Planning



Session I

Urban Risk, Resilience and
Disaster Preparedness
in Cities



Session II

Urban Finance, Smart
Investments and
Public-Private Partnerships



Session III

Assessment of Urban
Learning: Projects,
Portfolios and Impact Metrics



Session IV

Developing and Presenting
Sustainable Urban
Development Plans and
Institutional Roadmaps



TRANSFORMATIVE
For a Resilient Future

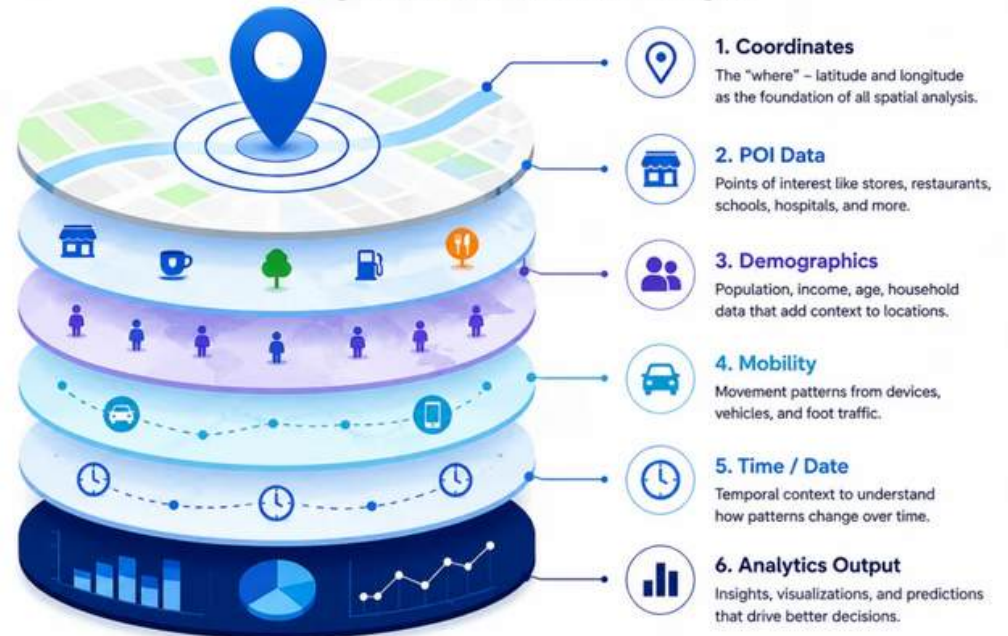
EXPECTED OUTCOMES

- Design and deliver urban sustainability-integrated courses aligned with SDGs and OBE framework
- Use digital technologies such as GIS, AI and data tools for urban analysis and teaching applications
- Guide students in implementing urban-focused projects such as smart campus initiatives, mobility studies and sustainability audits
- Develop and implement community-oriented urban engagement activities using digital platforms
- Adopt innovative and technology-enabled pedagogies to foster urban sustainability thinking and problem-solving among learners



What Is Geospatial Data Analysis?

Turning location data into actionable insights



REGISTRATION

REGISTER NOW



REGISTRATION LINK :

<https://forms.gle/2yfkcxjR71HkUAQj6>

REGISTRATION FEE

- Indian Participants

₹ 885 (Inclusive of GST)

- International Participants

USD 25 (Inclusive of GST)

PAYMENT 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

Scan to Register



Scan to Pay



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

Dr. S. GAYATHRI DEVI, Coordinator, SDG Committee
Professor, Biochemistry, Biotechnology & Bio-informatics

Dr. R. NITHYA, Associate Professor & HOD, Department of Civil Engineering

Avinashilingam Institute for Home Science and Higher Education for Women

Coimbatore – 641 043, Tamil Nadu, India.

ORGANIZING SECRETARIES

Dr. N. SRIMATHI, Associate Professor, Department of Civil Engineering

Dr. M. AMUTHA SELVI, Assistant Professor, Department Of Chemistry

Dr. R. KARTHIYAYINI, Assistant Professor, Department of Botany

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Coimbatore – 641 043, Tamil Nadu, India.

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@avinutty.ac.in

Mobile : 8072202927