

DIGITAL TRANSFORMATION POLICY

Policy No. DTP 2024

KARE/IQAC/DTP/2024/01



KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION

(Deemed to be University)

(Under the section 3 of UGC act 1956)

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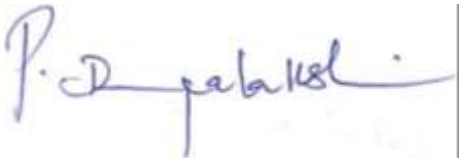


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DIGITAL TRANSFORMATION POLICY

Policy Preparation & Verification Team

Prepared: 2024

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DIGITAL TRANSFORMATION POLICY

1. Preamble

Kalasalingam Academy of Research and Education (KARE) is committed to fostering a digitally empowered academic environment that enhances teaching, learning, research, innovation, governance, and community engagement. Recognizing the transformative role of digital technologies in higher education, the University aims to integrate advanced digital solutions into its academic and administrative ecosystem to improve institutional effectiveness, operational efficiency, transparency, and stakeholder satisfaction.

Digital transformation at KARE extends beyond the adoption of information technology by embedding digital innovation into institutional processes, decision-making, and service delivery. The University promotes the responsible use of emerging technologies such as Artificial Intelligence (AI), Internet of Things (IoT), Cloud Computing, Data Analytics, Automation, and Smart Campus solutions while ensuring ethical practices, cybersecurity, data privacy, and environmental sustainability.

2. Objectives

The Digital Transformation Policy aims to establish a comprehensive digital ecosystem that supports academic excellence, research innovation, institutional governance, and sustainable campus development. The policy seeks to strengthen digital infrastructure, improve operational efficiency, facilitate data-driven decision-making, enhance stakeholder services, promote paperless administration, and encourage the responsible adoption of emerging digital technologies. It also aims to prepare students and faculty to thrive in an increasingly digital world while aligning institutional practices with national and global digital initiatives.

3. Scope

This policy applies to all Schools, Departments, Research Centres, Administrative Offices, faculty members, researchers, students, technical staff, and administrative personnel of the University. It encompasses all digital infrastructure, institutional information systems, academic technologies, research platforms, smart campus initiatives, cloud services, enterprise applications, digital communication systems, and technology-enabled services implemented by the University.

4. Digital Academic Environment

The University shall continuously strengthen its digital teaching and learning ecosystem through Learning Management Systems (LMS), smart classrooms, virtual laboratories, online assessments, digital content repositories, and blended learning methodologies. Faculty members are encouraged to integrate innovative digital pedagogies into their teaching practices, while students shall be provided with flexible access to digital learning resources that support continuous learning beyond the classroom.

Research activities shall be supported through advanced computing infrastructure, cloud-based collaboration platforms, digital libraries, institutional repositories, simulation software, artificial intelligence tools, and interdisciplinary digital research laboratories. The University shall encourage technology-driven research that addresses societal and industrial challenges.

5. Digital Governance and Administration

KARE shall promote digital governance by implementing integrated enterprise systems that facilitate efficient management of academic, financial, human resource, examination, research, and student support services. Administrative processes shall increasingly transition towards digital workflows through Enterprise Resource Planning (ERP), electronic document management, online approval systems, digital record keeping, and institutional dashboards.

Digital governance shall emphasize transparency, accountability, timely decision-making, and effective service delivery while minimizing manual intervention and improving institutional productivity.

6. Smart Campus and Digital Infrastructure

The University shall continue to develop a smart campus by adopting digital technologies that improve resource utilization, operational efficiency, and sustainability. Smart monitoring systems for energy consumption, water management, campus security, environmental monitoring, and infrastructure management shall be progressively implemented. The University's digital infrastructure shall include reliable internet connectivity, campus-wide Wi-Fi, secure servers, cloud computing facilities, high-performance computing resources, and modern communication systems to support academic and administrative functions.

7. Data Governance and Cybersecurity

KARE recognizes institutional data as a strategic asset and shall ensure its confidentiality, integrity, availability, and responsible use. Appropriate measures shall be implemented to protect institutional information through secure authentication, controlled access, data backup, network security, cybersecurity awareness programmes, and regular system audits.

The University shall comply with applicable data protection regulations and establish mechanisms to ensure responsible management of institutional data while maintaining the trust of students, faculty, staff, and other stakeholders.

8. Adoption of Emerging Digital Technologies

The University encourages the adoption of emerging technologies including Artificial Intelligence, Internet of Things, Machine Learning, Data Analytics, Cloud Computing, Robotics, and Automation to enhance academic quality, research productivity, campus operations, and institutional governance. Such technologies shall be deployed responsibly, ensuring transparency, fairness, accountability, and ethical use.

Digital innovation shall also be promoted through interdisciplinary research, industry collaborations, incubation activities, and technology-based entrepreneurship that contribute to national development and societal well-being.

9. Sustainability through Digital Transformation

Digital transformation shall support the University's commitment to environmental sustainability by promoting paperless administration, electronic communication, online meetings, digital documentation, virtual learning environments, and technology-enabled resource management. The use of smart digital solutions shall contribute to energy conservation, optimized resource utilization, and reduced carbon emissions, thereby supporting the University's Green Campus initiatives and the United Nations Sustainable Development Goals (SDGs).

10. Capacity Building and Digital Literacy

The University shall continuously strengthen the digital competencies of its students, faculty members, researchers, and administrative staff through training programmes, faculty development programmes, workshops, certification courses, and awareness initiatives. These programmes shall focus on emerging digital technologies, cybersecurity, digital pedagogy, research tools, artificial intelligence, data analytics, and responsible digital practices.

11. Implementation and Monitoring

The implementation of this policy shall be coordinated by the Information Technology Services Division in collaboration with the Internal Quality Assurance Cell (IQAC), academic departments, and other administrative units. Periodic reviews shall be conducted to evaluate digital infrastructure, technology adoption, service quality, cybersecurity preparedness, stakeholder satisfaction, and the effectiveness of digital initiatives. Feedback from stakeholders shall be utilized to ensure continuous improvement in digital transformation efforts.