

# ANNUAL REPORT

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# 2022

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**Kerala University of Digital Sciences,  
Innovation and Technology**  
(Digital University Kerala)

KERALA UNIVERSITY OF DIGITAL SCIENCES, INNOVATION AND  
TECHNOLOGY

Annual Report 2022

In pursuance of the provisions contained in section 29 of the Kerala University of Digital Sciences, Innovation and Technology Act 2022 (Act 10 of 2021), the Board of Governors of the University presents the Second Annual Report for the year 2022

**About us**

The Digital University Kerala, also known as the Kerala University of Digital Sciences, Innovation, and Technology, is a unique university in India that was

established with the aim of promoting a responsible digital world. It originated from the Indian Institute of Information Technology and Management-Kerala (IIITMK), which was founded in 2000 by the Kerala government to become a top educational and research institution in information technology and related fields. While the IIITMK quickly demonstrated its potential through numerous successful e-governance projects in Kerala, its operations were hindered due to inadequate infrastructure and delays in obtaining regulatory approvals to run academic programs. As a result, the IIITMK was unable to offer courses, research opportunities, or award degrees and titles independently, as it was registered as a company. To compensate, the IIITMK partnered with the Cochin University of Science and Technology (CUSAT) for academic activities. However, this arrangement limited the institution's ability to offer programs in line with the demands of the growing knowledge sector and fully realize its potential due to the restrictions imposed by CUSAT's statutes.

To overcome its limitations, the government upgraded the IIITMK to become the "Kerala University of Digital Sciences, Innovation & Technology" through Ordinance No. 9 of 2020 on January 18, 2020. This ordinance was later passed by the Kerala Legislative Assembly as Act 10 of 2021. The university's scope was expanded to include interdisciplinary areas in science, technology, and humanities relevant to the digital world, and it aims to become a world-renowned center of excellence through education, research, and extension activities in digital technologies, science, and humanities. The university began functioning from IIITM-K's new Technocity campus on October 28, 2020, with Professor Saji Gopinath, a professor at IIM Kozhikode, serving as the first vice-chancellor. The university was inaugurated on February 20, 2021, by the Governor of Kerala, with the Chief Minister of Kerala presiding over the event. Due to the Covid pandemic, the State Legislative Assembly could not hold normal sessions in 2020, so the university's bill was not introduced. The ordinance was therefore re-notified on September 26, 2020, February 9, 2021, and July 3, 2021, and was finally replaced by the Kerala University of Digital Sciences, Innovation and Technology Act, 2021, which was passed by the Legislative Assembly on October 30, 2021. In the meantime, the university has been recognized by the UGC under Section 2(f) of the UGC Act and has obtained recognition from AICTE for its M.Tech programs.

The University's programs are organized into three primary categories: Research, Education, and Outreach. These broad activities are carried out through Research Centers, Centers of Excellence that focus on research, Schools of Education that focus on academics, and Outreach Centers that focus on outreach activities. The academic programs are designed to build capacity at the Master's and doctorate levels in niche and disruptive technology areas such as Computer Science, Electronics,

Informatics, and Digital Sciences. To develop highly skilled human resources for Industry 4.0 and 5.0, the master's programs are aligned to meet current demands.

The programs announced by the Schools are M. Tech. in Computer Science & Engineering with specialization in Artificial Intelligence, Cyber security engineering, Connected Systems & Intelligence; Electronics Engineering with Specialization in AI Hardware, Signal Processing & Automation, M.Sc. in Computer Science with specialization in Machine Learning, Cyber Security, Data Analytics, Geospatial Data Analytics; Ecology with specialization in Ecological Informatics. The admissions to PG programs were based on GATE/ University admission test and interview and the Ph.D. program was based on the performance of the candidates in the Digital University Research Aptitude Test (DRAT)/GATE/NET examination and evaluation of competence in research methodology and a personal interview. The admissions for PG and Ph.D. programmes have been completed and the classes have commenced. Central Government and state government scholarships are available for eligible students. DUK has been listed under the National Scholarship Portal, Egrantz Kerala, Directorate of Collegiate Education, Higher Education is also providing merit cum means scholarships to deserving students. All the research students except the industry-sponsored candidates will receive either the scholarships based on the NET or the University scholarships.

The University is expected to function as a self-supporting Educational and Research Institute to run with its own internal revenue for all the operating expenditures as was in the case of IIITMK. The Kerala government has given a corpus of Rs.50 crores to meet the initial year's expenditure. The University is expected to achieve financial autonomy within the next five years. The mode of its working is envisaged as similar to Industrial / Business units, slightly different from other State Universities.

The University is projected to operate as a self-sufficient educational and research institution, covering all operational expenses through its own internal revenue, much like IIITMK did. The Kerala government has provided a fund of Rs. 50 crores to cover the initial year's expenses. Within the next five years, the University is expected to attain financial independence. Its mode of operation is envisioned to be comparable to industrial/business units, setting it apart from other state universities.

## **Vision**

The vision of the University is to become a global destination of repute in Digital World Education and Research and to become an academic leader by nurturing futuristic talent capable of developing innovative and sustainable solutions for the

industry, Governments, and society by leveraging Digital Technologies, Science & Humanities, through education, research, and application

## Mission

The motto of the University will be to *Curate a Responsible Digital World*. The development and application of Digital Technologies for social good is the underlying mission of the University. Towards this, the University shall focus on four themes of action namely, Computing, Intelligence, Sustainability, and Entrepreneurship; the first two themes shall form the focus area of work and the next two themes act as guiding light for the overall mission while designing programs, developing products and services as well as for providing training and extension activities. The University shall catalyse technical advances that promote societal welfare.

## Governance and Administration

### Chancellor

Shri Arif Mohammed Khan  
Hon'ble Governor of Kerala

### Pro-Chancellor

Shri Pinarayi Vijayan  
Chief Minister of Kerala &  
Minister in charge of Electronics & IT

### Vice Chancellor

Prof Saji Gopinath

### General Council

(Being constituted)

### Board of Governors

Sl. No	Members	Name and Designation
1	Chairperson	<b>Dr. Prof. Vijay Chandru</b> Co-Founder & Director, Strand Life Sciences, Bengaluru, Professor Indian Institute of Science
2	Principal Secretary/Secretary to Government, Electronics and Information Technology Department- Ex-officio Member.	<b>Shri. Biswanath Sinha IAS</b> Additional Chief Secretary
3	Principal Secretary/Secretary to Government, Finance Department – Ex-officio Member.	<b>Sri. Rajesh Kumar Singh, I A S</b> Additional Chief Secretary
4	Principal Secretary/Secretary to Government, Higher Education Department – Ex-officio Member.	<b>Dr. V Venu IAS</b> Additional Chief Secretary

5	One nominee of Higher Education Council, Government of Kerala- Ex-officio Member.	<b>Dr. Rajan Varughese</b> Member Secretary
6	Vice-Chancellor, APJ Abdul Kalam Technological University, Kerala – Ex-officio Member.	<b>Dr. Rajasree M. S</b> Vice-Chancellor
7	One representative of the Ministry of Communication & Information Technology, Government of India	<b>Dr. Jaideep Kumar Mishra</b> Joint Secretary
8	One nominee of the Department of Science & Technology, Government of India – Ex-officio Member.	<b>Dr. Anitha Gupta</b> Scientist-G & Head National Science & Technology Entrepreneurship Development Board (NSTEDB)
9	Director, Indian Institute of Technology, Palakkad – Ex-officio Member.	<b>Prof. P. B. Sunil Kumar</b> Director Indian Institute of Technology Palakkad
10	Director, Indian Institute of Management, Kozhikode – Ex-officio Member.	<b>Prof. Debashis Chatterjee</b> Director, Indian Institute of Management- Kozhikode
11	Director, Indian Institute of Science, Education and Research Thiruvananthapuram – Ex-officio Member.	<b>Prof. Jarugu Narasimha Moorthy</b> Director Indian Institute of Science Education and Research (IISER)
12	Director, Indian Institute of Space, Science and Technology, Thiruvananthapuram – Ex-officio Member.	<b>Sri. S. Somanath</b> Director Indian Institute of Space Science and Technology (IIST)
13	Director, Sree Chithira Tirunal Institute of Medical Sciences and Technology (SCTIMST), Thiruvananthapuram – Ex-officio Member.	<b>Dr. Ajit Kumar V. K MD DM</b> Director (In-charge) Sree Chitra Tirunal Institute for Medical Sciences & Technology (SCTIMST)
14	Director, National Institute of Interdisciplinary Science and Technology, Thiruvananthapuram – Ex-officio Member.	<b>Dr. A. Ajayaghosh</b> Director, National Institute for Interdisciplinary Science and Technology (NIIST) Council of Scientific and Industrial Research (CSIR)
15	Experts from industry or academia with proven expertise in education, research or practice in Information Technology and allied disciplines – Members.	<b>1. Shri V K Mathews</b> Founder and Executive Chairman, IBS Software (IBS Group)
		<b>2. Prof. C Mohan</b> Distinguished Visiting Professor, Tsinghua University, China and Former Shaw Visiting Professor, National University of Singapore (NUS)
16	Vice-Chancellor – Ex-officio Member.	<b>Prof, (Dr.) Saji Gopinath</b> Vice-Chancellor, Kerala University of Digital Sciences Innovation and Technology

## Deans

1. **Dr. Elizabeth Sherly**  
Dean (Academic), Professor (HAG) & Director IIITM-K
2. **Dr. Asharaf S**  
Dean (Research & Development), Professor
3. **Dr. A.P. James, FIET, FBCS**  
Associate Dean (Academic), Professor
4. **Dr. Joseph Suresh Paul**  
Dean (Human Resources Development), Professor

## Registrar

P Suresh Babu

## Controller of Examinations

Sabu M Thampi

## University Librarian

Dr Gopakumar V

## Deputy Registrar (Finance)

Vishnu V

## Deputy Registrar (Administration)

Murali R

## Assistant Registrars

Aneesh S (Finance)

S Vijayakumar (Administration)

Ajitha Nayar K (Academic)

## Technical Officers

Jayachandran M B (CTO)

David Mathews (Design Engineer)

## **1. School of Computer Science and Engineering (SoCSE)**

Established in 2020, SoCSE provides doctoral and master's degree programs, with research focus areas including theoretical computer science, computational intelligence, and systems & networks. Our mission is to educate and inspire the next generation of scientists and engineers to pursue their research goals. We strive to provide top-notch teaching, research, and learning opportunities that benefit our students, faculty, and society.

### **Vision**

To become a world-leading center of advanced learning, research and development, and societal outreach in the field of Computer Science and Engineering.

### **Mission**

To provide an enriching scholastic environment that nurtures innovative and effective ways of knowledge creation, dissemination and application to facilitate world-class education and cutting-edge research in the field of Computer Science and Engineering and thereby contributing to the society nationally and globally.

### **Objectives**

- SoCSE targets to focus its activities in the following dimensions:
- World-class research and academics with national and international collaborations.
- Nurturing globally competent and socially responsible talent pool through academic programmes.
- Commercialization of research outcomes through consultancy, collaborative new business initiatives and promotion of entrepreneurship.
- Creating an inclusive and collaborative environment to foster local, sustainable and globally relevant knowledge and expertise.

### **Courses**

1. MTech in Computer Science and Engineering with Specialization in Connected Systems and Intelligence (30 seats) AICTE Approved
2. MTech in Computer Science and Engineering with Specialization in Artificial Intelligence (30 seats) AICTE Approved
3. MTech in Computer Science and Engineering with Specialization in Cyber Security Engineering (30 seats) AICTE Approved
4. MSc in Computer Science with Specialization in Machine Intelligence
5. MSc in Computer Science with Specialization in Cyber Security
6. Ph.D. program is offered in Full-time regular, Industry regular, and Part-time modes of study.

### **Faculty**

**Dr. Asharaf S**

Dean (Research & Development), Professor

**Dr. Elizabeth Sherly**

Dean (Academic), Professor (HAG) & Director IIITM-K

**Dr. John Eric Steephen**

Assistant Professor

**Dr. Preetam Mukherjee**

Assistant Professor

**Dr. Sabu M Thampi**

Professor

**Dr. Sinnu Susan Thomas**

Assistant Professor

**Dr. Tony Thomas**

Associate Professor

**PhD scholars being guided by**

**Dr. Asharaf S.**

1. Kiran Raj Joseph
2. Caroline Mary M

**Dr. Elizabeth Sherly**

1. Judy K George
2. Nayana Uday
3. Parvathy Pavithran,

**Dr. Sabu M Thampi**

1. Anjana Jimmington
2. Aswin P
3. Blessy Thomas

**Dr. Tony Thomas**

1. Hari Prabhakaran

**School of Digital Humanities and  
Liberal Arts (DiHLA)**

## **2. School of Digital Humanities and Liberal Arts (DiHLA)**

### **Introduction**

Digital Humanities is a multidisciplinary field that explores the various dimensions of the interplay of digital technologies, societies, and communities. It encompasses research in various areas where digital technologies influence, contribute, and advance the cause of humanities and explores the intersection of digital technologies and humanities. The field attempts to produce applications and models that make possible new kinds of research, both in the humanitarian disciplines as well as in computer science and its allied technologies. It

also studies the impact of these technologies on cultural heritage, libraries, archives, digital culture, lifestyles, technology-empowered communities, and the deployment of mathematical and predictive models on the future of a digitally empowered society.

The School of Digital Humanities and Liberal Arts (DiHLA) at KUDSIT will focus on research related to digital culture and society and will explore the use of advanced technology-related methods in humanities research. In current times, cultural artefacts are increasingly available in digitized or born-digital form, and computing power, which has grown exponentially over the last several decades, is more accessible than ever. The activities at the Centre would focus on the exploration and use of digital tools, analytical techniques, and technology to explore humanistic questions and solve business-related issues. The DiHLA will have its own academic and research programs in areas such as Digital Law, Digital Pedagogy, Computational Social Science, e-Governance, management science, entrepreneurship, innovation, etc. The school will also collaborate with other schools of KUDSIT for supporting interdisciplinary programs of KUDSIT that have a humanities/social science component.

## Objectives

- To cater to the demand of trained human resources to promote and influence the informed and critical uses of digital technology and computational approaches in social sciences, art, literature, history, area studies, linguistics, media, management and other disciplines of the humanities.
- To promote multidisciplinary domains of research in the social sciences that connect sociology, humanities, law economics, management, governance, policy, education, and related disciplines with technical innovations in mathematics, statistics, and computer science.
- To bring together students and faculty from within various centers of KUDSIT as well as researchers and community members to explore the crossroads of the humanities and computing.
- To encourage and motivate the student community to take up the future challenges of the growing IT industry
- To enable researchers and students to adapt computational and computer-aided methods to access, analyze, sequence, and present social and cultural artefacts in innovative ways.
- To engage with the wider community of researchers, academics, and practitioners for initiating, developing, and sharing ideas to address and influence various emerging digital policy challenges
- To generate new and relevant knowledge through original research, and intervening through direct engagement with civil society and communities.

## Courses

1. Postgraduate Diploma in e-Governance

## Faculty

### **Ajithkumar R**

Assistant Professor

### **Jayachandran M B**

Chief Technical Officer

### **Dr. Jaishanker R**

Professor and Chairperson, School of Informatics (Secondary membership)

### **Dr. John Eric Steephen**

Assistant Professor

### **Dr. K.G. Satheesh Kumar, M.B.A., B.Sc. (Engg.)**

Professor

### **Dr. Meraj Uddin**

Assistant Professor

**Pradeep Kumar K**

Assistant Professor

**Dr. Sabu M Thampi**

Professor, School of Computer Science and Engineering (secondary membership)

### **3. School of Digital Sciences**

#### **Introduction**

The School will focus on STEM education. Science, technology, engineering, and mathematics (STEM) is a broad term used to group these academic disciplines. As per [STEMconnector.org](https://www.stemconnector.org), projections estimate the need for 8.65 million workers in STEM-related jobs. It was reported that STEM jobs in India increased by 44% from 2016-2019.

In the era of Industrial Revolution 4.0, it's imperative to train our nation's youth with the latest technologies and prepare them to bring knowledge and skills to solve complex problems and use them for decision-making. These skills are generally known as STEM, which will help meet the expectations to create a dynamic workforce who can lead our nation tomorrow. It is essential to have trained human resources in STEM fields. The proposed School of Digital Science theme is STEM, spanning the broad areas of Computational Science, Data Analytics, and Scalable Data Systems across various science and technology domains.

### **Vision**

To become an internationally reputed Advanced Center in the thematic areas of the School and to provide socially relevant services to the general public through the knowledge and skill acquired through learning, research, and development.

### **Mission**

To provide the critical meeting ground for people to learn the subject, interact with world-class experts, collaborations, organize and regulate access to federated data, information, and computational resources, for knowledge creation, dissemination, and applications to facilitate world-class education and bleeding edge research in the field of digital sciences and thereby empowering the society with updated skills and knowledge.

### **Objectives**

- To cater to the demand for trained human resources in the areas of STEM
- To foster advanced research, development, and Innovation in frontier areas of Digital Sciences
- To encourage and motivate the student community to take up the future challenges of the growing IT industry
- To promote innovations and entrepreneurship ecosystem in social innovations and commercialize research outcomes

### **Courses**

1. MSc in Computer Science with Specialization in Data Analytics (40 seats regular)
2. MSc in Computer Science with Specialization in Geospatial Analytics

3. PhD program is offered in Full-time regular, Industry regular, and Part-time mode of study

**Faculty**

**Ajith Kumar R**

Assistant Professor

**Dr. John Eric Steephen**

Assistant Professor

**Dr. Manoj Kumar T. K**

Professor

**Dr. Radhakrishnan T**

Assistant Professor

**Sanil P Nair**

Assistant Professor of practice

**PhD scholars being guided by**

Dr. John Eric Steephen

- Divya Rajan

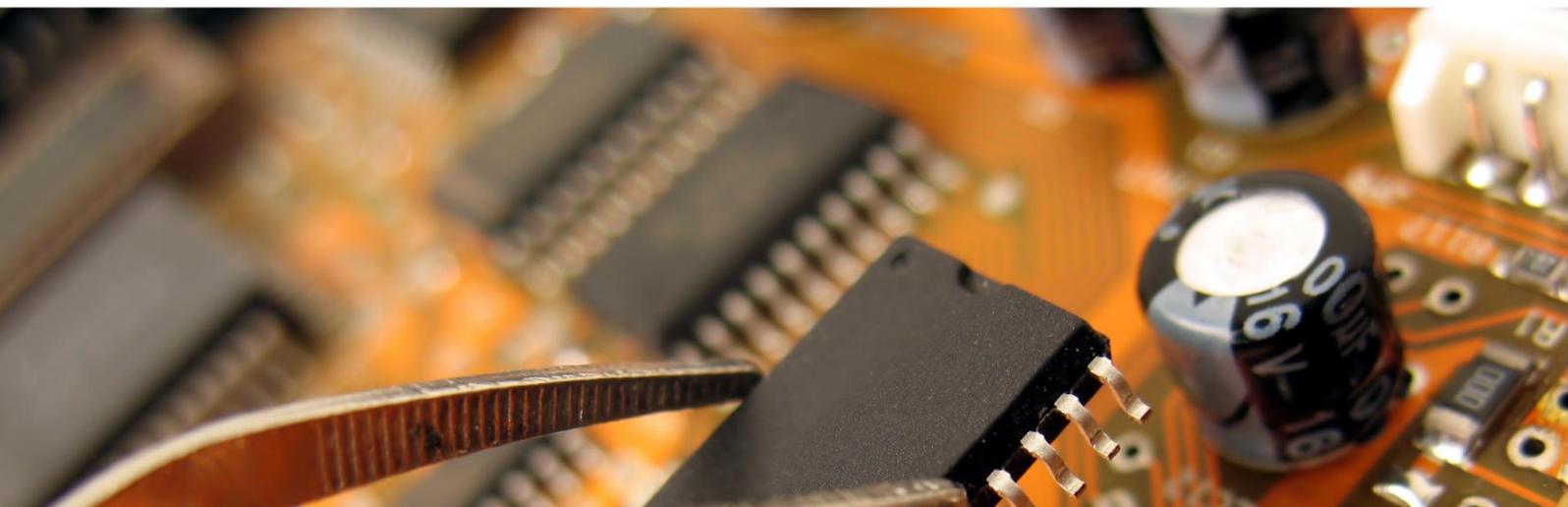
Dr. Manojkumar T K

- Sanil P Nair

**Visiting Research Scholars**

- Dr Mithun Padmakumar
- Dr Joseph Tharion

# **School of Electronic Systems and Automation (SoE)**



## 4. School of Electronic Systems and Automation (SoE)

### Introduction

The School of Electronic Systems and Automation (SoE) believes in the practice of open Innovation, open hardware and open minds. And hold the following values to its heart:

- Learning is a process and not a product
- Innovation and creative thinking as a core value
- Promote inclusive education and learning
- Focus on student centred educational practices
- Embrace multiculturalism and international diversity
- Encourage diverse ways to make and demonstrate impact
- Enable an active start-up ecosystem

We welcome the visitors, industry representatives and students to be part of this journey and value system.

### Vision

We identify exceptional research and commercialisation opportunities, inspire collaborative works, promote industry, and make connections to accelerate social, economic, technological and environmental development.

## **Mission**

The School of Electronic Systems and Automation (SoE), The Kerala University of Digital Sciences, Innovation and Technology is established in 2020, in Technocity campus, Trivandrum. The SoE aims to be a premier centre of research and Innovation in Electronics Systems and Automation making key contributions to the economic, technological and social well-being.

## **Objectives**

- The SoE is an Engineering school that focuses mainly on applied research and Innovation in Electronic Systems. The SoE aims to be international from its work environment to professional practice and offer intellectual freedom to grow. All the faculty in the School are considered intellectual equals irrespective of the stage of career.
- The SoE will place quality ahead of all the other parameters:
- The SoE places merit and quality ahead of equal opportunities principles. Although it will follow all the national guidelines and requirements where necessary, it will focus on the quality.
- It is expected that faculty members will attain high standards in research, teaching and services.
- The communications within the School aims to be transparent and fast. Being a digital university, all documentations to communications are expected to be in digital forms.
- SoE believes in a student-centered education. The students are expected to be internationally competitive and be highly disciplined in academic matters.
- SoE encourages internationalization of its education and research activities in all levels. It envisions collaborative programs and encourages faculty to build programs that benefit the Indian society.
- SoE will follow best practices from around the world and will update its strategies every year to be competitive nationally and internationally in all its endeavours.
- SoE encourages all its faculty to commercialize, productize, and perform social innovations and patent research.
- SoE sets high priority to industry-academic collaborations and international research collaborations.

- SoE programs and activities shall follow at the minimum the relevant university guidelines and those required by regulatory bodies. However, SoE shall set higher standards than prescribed by the university, in its educational programs, outreach, consulting and recruitment activities.

The School will focus on the broad areas of AI Hardware, AI Robotics, Signal Processing and Automation and Computational Imaging System

### **Courses**

- MTech In Electronics Engineering with Specialization in AI Hardware (30 Seats)
- MTech In Electronics Engineering with Specialization in Signal Processing And Automation (30 Seats)
- PhD program is offered in Full-time regular, Industry regular, and Part-time mode of study.

### **Faculty**

**Dr. A.P. James, FIET, FBCS**

Associate Dean (Academic), Professor

**Dr. Naresh Kumar Reddy**

Assistant Professor

**Dr. Joseph Suresh Paul**

Dean (Human Resources Development), Professor

**Dr. Jose Joseph**

Assistant Professor

**Dr. Sumit Datta**

Assistant Professor

### **PhD scholars being guided by**

**Dr. Alex P James**

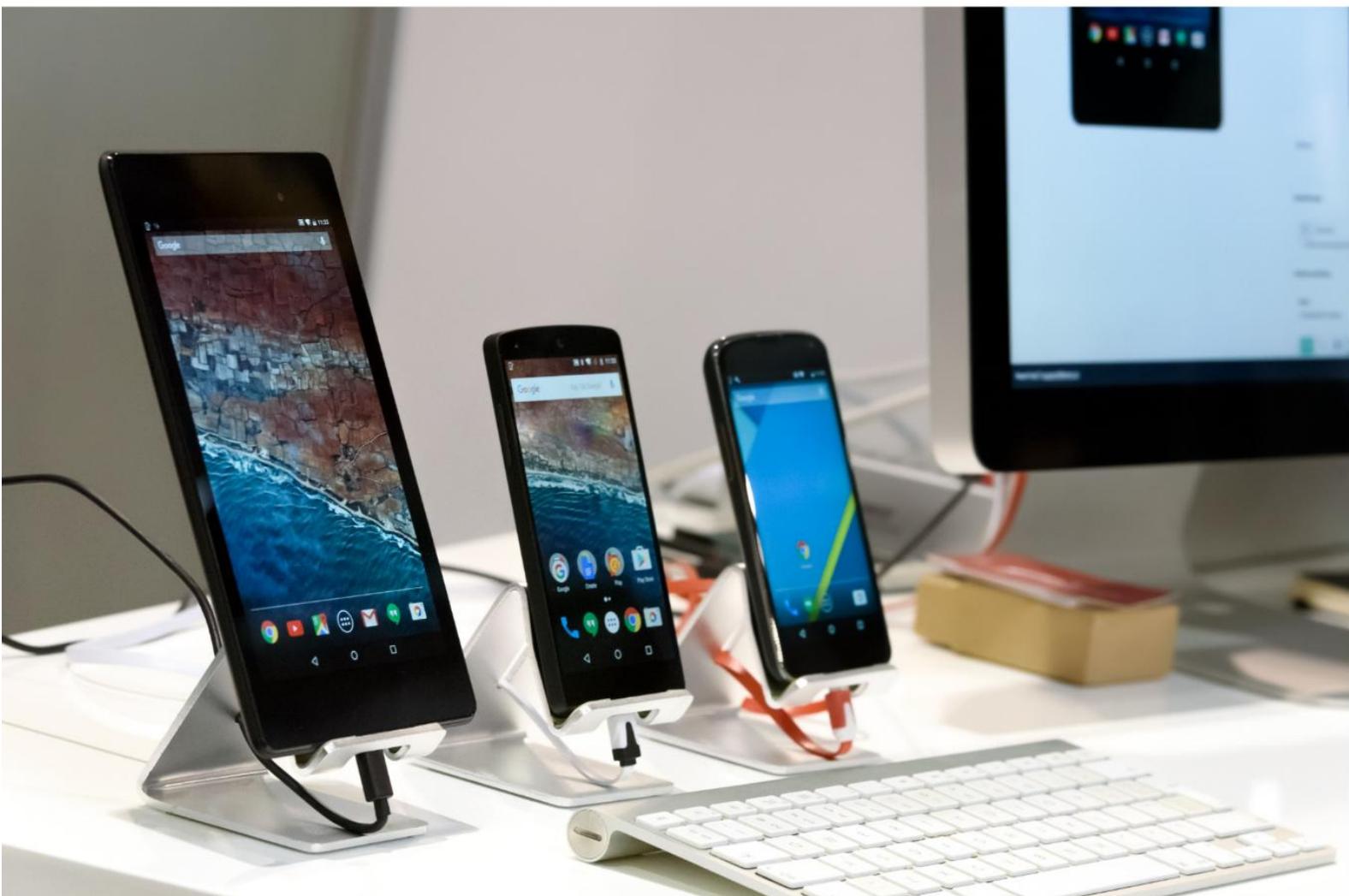
1. Anitha Gopi
2. Aswani A. R
3. Sruthi P
4. Vasudev S. Mallan,
5. Vineeta Vasudevan Nair

**Dr. Joseph Suresh Paul**

1. Arun Raj T
2. Athulya M Nair
3. Naveen Varghese Jacob

4. Saranya S Nair

## School of Informatics



## 5. School of Informatics

### Introduction

The School of Informatics is a frontier-less intellectual space that radiates computing across applied science and social science disciplines. We perceive informatics as the binder that can transform and levitate applied domains, which are increasingly relied upon to address emerging challenges.

The academic programs of the School of informatics are interdisciplinary and of high quality. We ensure our students develop the ability to comprehend issues holistically, think objectively, and imbibe skills that would help them either find gainful employment or advance to a research career. A couple of years that one invests at the School of Informatics will return dividends in the future

### Vision

We envision a 'cooperatively competitive' academic environment with focus on transmutation of information Socially and temporarily relevant research backed by quality education to churn out graduates with professional acumen, exceptional leadership and a humane heart.

### Mission

The tri-value system of Sol intends to provide education through three allied values: learn, transmute and transform. The Sol imparts value-based and technology-oriented interdisciplinary education to students to bring them up as citizens who are socially conscious, intellectually competent and morally upright.

### Objectives

- Promote excellence in teaching and research with state-of-the-art infrastructure, through enhancing learning for all academic programs, including extra-curricular activities. The School is keen to advance scientific research and scholarship to an international level
- Promote the personal, social, academic and career growth of all students in a proactive manner to prepare and qualify them to be leaders in their chosen careers and professions The School provides proper environment that nurtures Innovation, creativity, and the pursuit of knowledge

- Forge strategic partnerships with the local community, including the public service industry in order to be responsive to the socio-economic needs of the community through dedicated applied research.
- Activities
- Teaching at MSc, PG Diploma/certificate and pre-PhD levels.
- Academic research including guiding of PhD and MTech/MSc students
- Development of continuing education programme and online learning resource material.
- Contribution to interdisciplinary teaching and research programmes.
- Sponsored R&D and consultancy
- Build strategic partnerships with the local community, including the public service industry in order to be responsive to the socio-economic needs of the community through dedicated applied research
- Contribute to the socio-cultural, scientific and economic progress of society through social responsiveness and effective engagement

### **Courses**

#### **Postgraduate programs**

- MSc Ecology with Specialization in Ecological Informatics (30 Seats)
- PhD program is offered in Full-time regular, Industry regular, and Part-time mode of study.

### **Faculty**

#### **Dr. Athira K**

Assistant Professor at the School of Informatics (Sol)

#### **Dr. Jaishanker R**

Professor and Chairperson, School of Informatics

PhD, M.Tech, M.Sc, B.Tech

## **Knowledge Centre**

DUK is the new Gen University created based on the philosophy of digital technology for transformation. The specific programs focusing on the blend of Academics, R&D, Technology, Innovation, Entrepreneurship, and Arts & Humanities are expected to create better and faster solutions to society at global scales of excellence.

This re-engineering aiming at significant social changes needs effective and matching information inputs as the fuelling mechanism. With this fundamental

objective, the conventional Library System is being revamped to play its matching role in the new environment. Thus the rechristened Knowledge Centre from the framework of its structure as given in this document will undergo visible changes within a short span of time.

The changing pattern of info needs of users, the expanding trends in info resources, the complexities of info dissemination processes, the ever-increasing tools, devices, and techniques, and the missing links in the work-flow of the activity domains of users are being closely examined to restructure a better model of info dissemination. It is envisaged to formulate both short-term and long-term solutions.

Other essential factors include Open Access and Open Science initiatives, Public-Publisher conflicts in monopolizing data sharing and products, info storage & dissemination economics, etc. Optimizing user needs vis-à-vis the delivery of matching services will decide the choice/design of the appropriate models.

The unlimited possibilities of applying new technologies in the info-handling processes are also being explored. Yet another factor is the changing trends in the concept of physical space and info intermediaries/workforce in real-life libraries.

The transformation envisaged in the ultimate functioning of the Knowledge Centre will depend on this incisive thinking and constructive application.

Thus the structure of the resources, products, and services as enlisted below will be transformed into a system better suited for the given environment and possibly as a model to emulate.

## **Resources**

In-House Databases including

- Books: e-Versions & p-Versions
- Periodicals/Journals/Magazines: e-, p- & Integrated Versions
- Institutional Repository covering
- Scholarly Publications
- PhD Theses
- Academic Project Reports
- Academic Courseware & Syllabus
- Question Papers Bank
- Externally Accessible Resources covering

Subscribed e-Resources including

- IEEE Xplore, ACM DL, Springer, ScienceDirect, Scopus etc.
- Access to National Facilities, including INFLIBNET, NDL, etc.

Open Access Databases, including ArXiv.org, DOAJ, WIPO, etc.

### **Services**

Acquisition of Publications  
 Access to e-Resources: Campus-Wide incl. Hostels  
 Web OPAC  
 Normal Circulation Service  
 Inter-Institutional Resource Sharing  
 Photocopying & Scanning  
 Reference & Referral Service  
 Info Support Service for Assignments, Academic and R&D Projects  
 IPR Search & Learning Programmes  
 Window to Open Source Learning / MOOCs  
 Scholarly Publishing Guidance including  
 Choice of Source Publications incl. Metrication Standards  
 Manuscript Preparation: Style / Formatting / Font Selection/  
 Reference Management / Publishers' Author Guidelines /  
 Peer Reviewing  
 Plagiarism Checking  
 Metrication: Tools, Techniques & Services  
 IQAC Support Service  
 Platform for Promoting Professional Societies  
 Promotion of Discussion Forums  
 Digital Bulletin Board as a Rapid Alert Service

### **Facilities**

Reading Space  
 Net-enabled Access Stations  
 Photocopying & Scanning Systems  
 The newGen Learning Space

### **Major Initiatives (Futuristic)**

Externally Funded Projects  
 Extending the Resources & Services to Academic & IT Corporates  
 Research Data Management

Wealth of Kerala: A Dream Project to Create a Digital Version of the Scholarly Resources of Kerala.

The Knowledge Village

When accomplished, the total Info System Facility is expected to transform the sector into a Knowledge Village.

### **The Team**

Dr Gopakumar V, Head, Knowledge Centre  
 Dr. Narayana D, Assistant Librarian  
 Remya S, Library Assistant  
 Mrs. Renjini V, Library Assistant  
 Mr. Goutham N, Library Assistant

## Projects

Funded by Kerala State Planning Board		Outlay in Lakhs
<b>1</b>	<b>School of Computer Science and Engineering</b>	
	Centre for Research and Innovation in Cyber Threat Resilience (CRICTR)	50
	Centre for Excellence in Brain Computing (CEBC)	50
	Centre for Computational Social Science (CCSS)	20
	Sixth Sense : CoE in Machine Learning	100
	Virtual resource center for language computing (VRCLC)	30
	Centre for Excellence in Pattern and Image Analysis (CEPIA)	20
	Image and Vision Computing (IVC)/ Optimization and Machine Learning Lab (OM)	20
	Total for School of Computer Science and Engineering	290
<b>2</b>	<b>School of Digital Science</b>	
	Centre for Data Science and Informatics	30
	Centre for Affective and Neuro Computing (CAN) Disaster	20
	Planspace, Kerala	115
	Centre for GIS	40
	Total for School of Digital Science	205
<b>3</b>	<b>School of Electronic Systems and Automation</b>	
	Centre for Open Electronics and Social Innovation (COESI)	40
	Centre for Intelligent Sensor Electronics and Applications (CISEA)	40

	Development of Ultrasound Transducer for Neuromodulation (DUTN)	20
	Total for School of Electronics Systems and Automation	100
<b>4</b>	<b>School of Informatics</b>	
	Ecological Informatics	40
	Total for School of Informatics	40
<b>5</b>	<b>School of Digital Humanities &amp; Liberal Arts</b>	
	Centre for Innovation in e-Governance (CIE)	20
	Total for School of Digital Humanities & Liberal Arts	20
	Centre for Augmentation for Web based multimedia (TEL4HQA)	10
	Centre for Software Engineering Knowledge and Project management (SCKC)	20
	Total projects	70
<b>6</b>	<b>Knowledge Centre</b>	
	One time financial assistance	50
		754.51
	Total	

<b>Consultancy Projects</b>		<b>Project Revenue (Rs. in Lakhs)</b>
1	AHD RFID Based Health Management Project	720
2	DAH Web Based Disease Monitoring	21
3	GSTD Data Analytics Kerala	169
4	High Court E-Governance	19
5	Hydrographic Survey Web GIS Based Portal	25
6	KDISC Digital Workforce Management System	297
7	RIAB KUDSIT Project	50
8	RRI Rubber Information System	47
9	SNOU Digital Academic System	185
10	SNOU Learning Management Platform	6
11	GPS Survey Charges- Prison	0
12	IMG Website AMC Charges	1
13	Innovation Project Mentor Development ODOI KDISC 22	8

14 I&amp;PRD Monitoring Portal

2

### Large Research Projects

1	Augmented and Virtual Reality Center (AVRC)	State Planning Board	130 Lakhs
2	India Innovation Centre for Graphene	Meity	8600 Lakhs
3	Development of Academic ERP	SNOU	215 Lakhs
4	RFID based Animal traceability and e-Health monitoring	Department of Animal Husbandry, GOK	720 Lakhs
5	IMMUNOCHAIN - Phase 2 (In collaboration with ICMR)	BIRAC	125 Lakhs

### Research and Development/ Projects funded by Other Agencies

SI No	Name of Project	Sponsored by	Project Cost (RS. In lakhs)
1	Biometric PUF chip	C3iHub, DST	28
2	Robust identification of iron depositions using a predictable signal model for GRE phase: Implications to neurodegenerative diseases	ICMR	28
3	RTI Knowledge Portal - AMC	IMG, Tvm, GoK	1.7
4	Consultancy Services to Online Accreditation Portal	I-PRD, GoK	1.6
5	KISSAN Kerala	Department of Agriculture, GOK	60
6	AI Based Pest Surveillance System	Department of Agriculture, GOK	15
7	Development of in-situ soil pH sensors	MeitY(through IISc Bangalore)	15
8	Development of Signal Processing Tools for Susceptibility and Conductivity Mapping from a Single MR Acquisition using a Spoiled	SERB	27

Gradient Multi-Echo Sequence Conductivity		
9	Investigation of a novel spatio-temporal unwrapping error reduction on clinical feature extraction in SWI.	DBT 28.57
10	Causal Optimal Transport for Summarizing the Unpaired Videos	DST SERB 21
11	A Neuroimaging tool for differential diagnosis of vascular dementia using MR oxymetry with proprietary field corrections	DBT 60
12	AI based Sematic Search Engine and Knowledge Discovery project	VSSC ISRO 40
13	AHD Online Service Delivery System	Department of Animal Husbandry, GOK 57.82
14	Investigation of a novel spatio-temporal unwrapping error reduction algorithm on clinical feature extraction in SWI	DBT 28.57
15	Compressed sensing MR phase recovery for fast quantitative susceptibility map estimation in multi-echo GRE acquisition	KSCSTE 29.81
	Centre for Innovation in e-Governance	SPB, GoK 20
17	Novel Security Framework for Internet of Drones	DST 36.56
18	RKI PMS system	RKI, Govt of Kerala 35
19	Information Security Education and Awareness phase 2 project	DeitY, Gol 6.06
20	Design and Implementation of Online Training and Learning Management Platform	ICPS, Women and Child Development Department, GoK 9.38
21	Online Learning and Training Management Platform for Integrated Child Protection Scheme	Women and Child Development Department, GoK 9.38
22	Developing policy inputs for faster economic recovery while promoting disaster preparedness via AI	British Council 15.2

# Centers of Excellence

## Kerala Blockchain Academy



## **Kerala Blockchain Academy**

Kerala Blockchain Academy is a unique initiative by the Government of Kerala through Kerala University of Digital Sciences, Innovation and Technology (formerly, IIITM-K) with a vision of "Leveraging Blockchain Technology for Public Good". KBA is the first of its kind Government Blockchain Academy in India set up in 2017. KBA is the first Indian academy to become an Associate Member and Official Training Partner of the Hyperledger Foundation under Linux Foundation, an umbrella project of open source Blockchains and related tools started by Linux Foundation in 2015. KBA mainly has two verticals: First is the Blockchain Powerhouse, focusing on capacity building programs in Blockchain technology including certification programs, R&D and consulting. Next is the Blockchain Garage, which focuses on collaborative solution development, IP generation and entrepreneurship promotion. KBA Blockchain Powerhouse is partnering with K-DISC for the Accelerated Blockchain Competency Development (ABCD) Program and has trained over 12000 professionals in the last 3 years. Blockchain Powerhouse currently has more than 1000 active online members through Special Interest Groups (SIG) in Ethereum and Hyperledger who works on various collaborative research/development initiatives of KBA. KBA is also a General Partner of R3 Consortium for Corda Blockchain and Official Education Partner of Zilliqa Blockchain Network. Kerala Blockchain Academy has established Kerala Blockchain Academy Innovation Club (KBAIC) in more than 50 member colleges to help students from academic institutions across the country to explore deep into the potential of Blockchain technology. KBAIC provides an opportunity to work closely with experts and experiment with the latest advancements in this domain. This will also help students to build their careers in the disruptive world of blockchain. Kerala Blockchain Academy currently offers eight instructor-led classroom/virtual certification programmes and five online self-paced programmes through which more than 12000 learners across 32 countries have been trained.

## **Advisory Board**

1. Shri. Mahadavan Nambiar, IAS (Rtd.) - Chairman
2. Dr. C. Mohan : Distinguished Visiting Professor - Tsinghua University & Retired IBM Fellow of IBM Research
3. Dr. Jane Thomason : Blockchain for Social Impact Advisor
4. Dr. Chandrasekaran Pandurangan, Professor(Rtd.), IIT Madras
5. Adv. N. S. Nappinai: Advocate - Hon. Supreme Court of India & Founder - CyberSaathi
6. Dr. Dilip Krishnaswamy: VP (New Technology Initiatives) Reliance Jio Infocomm Ltd
7. Dr. Sushmita Ruj : Senior Research Scientist CSIRO Data61, Australia
8. Michael Chael Gord: Founder & CEO, MLG Blockchain Consulting & GDA Capital.

### **News from Kerala Blockchain Academy**

#### **Two-Day Hyperledger Fabric Bootcamp**

29th and 30th of April 2022

Kerala Blockchain Academy offered a 2-Day Hyperledger Fabric Bootcamp for Hyperledger Fabric lovers starting from 29 April 2022. The two-day offline training was conducted at the Kerala Blockchain Academy Campus, Indian Institute of Information Technology and Management-Kerala ( IIITM-K ), Technopark, Trivandrum on 29th and 30th of April 2022 from 10 a.m. to 5 p.m. The goal was to envelope important concepts in the Hyperledger Fabric that learners in no time succeed with writing the best applications for a Fabric network.

Those successfully completing the bootcamp could takeaway: A Blockchain-powered Digital Certificate of Participation. Discount Coupon worth 2500 INR for Certified Hyperledger Fabric Developer Program. One-Month FREE Online Support on learning Hyperledger Fabric Developer Program.

#### **Blockchain Training for Reflections**

19th April to 22nd April 2022

Kerala Blockchain Academy conducted four-day Blockchain Training for Reflections team having 80+ participants. The program was conducted in online virtual mode from 19th April to 22nd April 2022.

#### **Blockchain Excellency Program**

Kerala Blockchain Academy have announced its new initiative “Blockchain Excellency Program”, a one year, paid internship program for young graduates interested in

Blockchain Technology. The offline program is scheduled to begin on 12, September 22 at Kerala Blockchain Academy Campus, Technopark, Trivandrum. The program will provide blockchain-interested candidates with the opportunity to work in a truly blockchain environment with a team of peers to improve their analytical and technical skills. Besides mentoring, the candidates will be allowed to participate in brainstorming sessions, presentations, and development workshops to identify their potential and thereby build a professional portfolio in the blockchain world.

### **Award for Innovations**

- Digital University of Kerala is proud to announce that Immunochain, a big data and blockchain powered vaccine traceability solution developed by Kerala Blockchain Academy has won the Chief Minister's Award for Innovations in Public Policy.
- Prof. Saji Gopinath, Vice Chancellor, Digital University Kerala, accompanied by S Asharaf, Dean (R & D) and Adarsh S, Research Scientist & Convener, Kerala Blockchain Academy receiving the Special Award from Chief Minister Pinarayi Vijayan for Innovations in Public Policy. DUK won the special award for Timeliness of the Response and the Spirit of Innovation for the project Immunochain, a big data and blockchain technologies powered vaccine traceability solution developed by KBA.

### **BlockHash LIVE 2022**

To make the State of Kerala a fertile destination for Blockchain development and adoption, Kerala Blockchain Academy have been into organizing BlockHash LIVE- an annual blockchain summit spotlighting the most influential leaders in the blockchain domain. A premier platform for Blockchain elites, exhibitors, investors, and thought leaders, BlockHash LIVE, showcases the most influential leaders, decision-makers, visionaries, influencers and disruptors from the world of enterprise and tech, sharing how to approach Blockchain in a changing digital landscape. Since 2018, the blockchain congregation has secured its place on the global tech calendar as India's most happening Blockchain summit.

BlockHash LIVE 2022 is the fifth edition of Kerala's Annual Blockchain Summit organized by Kerala Blockchain Academy. Now in its 5th year, the summit brings together an industry-leading event focusing on Innovation, Entrepreneurship & Society. BlockHash LIVE 2022 will feature enterprise use cases, government use cases, inspirational keynotes, panel discussions, tech talks, blockchain exhibition, startup pitch competitions, and network opportunities. The event will be an onlooker to the

most inspiring projects running on Blockchain, Expert Keynote Addresses, Interactive Panel Discussions, and Workshops enthralling Blockchain potentials. The two-day event will take place at Kerala Arts and Crafts Village, Kovalam, Trivandrum, on the 16th and 17th of December, and we anticipate an audience of about 250 people.

### **BlockHash LIVE 2022: Annual Blockchain Summit held at Arts and Crafts village**

The 5th edition of the Annual Blockchain Summit- BlockHash LIVE 2022 organised by Kerala Blockchain Academy, a center of excellence under Digital University Kerala was held at Kerala Arts and Crafts Village, Kovalam, on the 16th and 17th of December. The event witnessed the latest blockchain disruptions and expert opinions on the blockchain for a sustainable future. The two-day event threw light on the immense scope and development that awaits the State of Kerala with regard to blockchain adoption and implementation. Power-packed with technology enthusiasts, BlockHash LIVE had more than 150 participants getting an opportunity to network with industry experts and learn more about the technology through workshops, panel discussions, tech exhibitions, and allied practices. Master Hrishikesh Arun, a Tech Prodigy inaugurated the event.

The event also witnessed the launch of Kerala Chapter of India Blockchain Forum in the presence of Dr. Asharaf S, Director, Kerala Blockchain Academy), Prasanna Lohar , President, India Blockchain Forum, Sunil Raveendran, President, Kerala Chapter of the India Blockchain Forum, Adarsh S, Vice-President, Kerala Chapter of India Blockchain Forum and officials from Kerala Police Cybedome. India Blockchain Forum aims at making India a global hub for Blockchain and Web 3.0. It aims to create community chapters across the country to increase awareness and access to global best practices. India Blockchain Forum envisages a collaboration model with governments, regulators, industry, and academia to help build a holistic framework for the right adoption of blockchain and web 3.0. The forum has more than 40 influencers and is setting up Special Interest Groups (SIGs) in areas such as CBDC and Web 3.0 adoption. The logo of the India Blockchain Forum - Kerala chapter was unveiled by Mr. Prasanna Lohar.

BlockHash LIVE 2022, drew to a close with vibrant discussions, blockchain introspections, and a networking lunch. Metaverse Workshop by Aviram Studio delivered a photoreal, physically-accurate simulation powered by their AR/VR technologies on the last day. The Interactive Panel Discussions such as Blockchain Adoption and Entrepreneurship Journey gave insight to audience about how blockchain planners and entrepreneurs used the technology.

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## **Admissions**

### **MSc/ MTech Program**

The selection to all MTech and MSc programmes of Digital University Kerala was conducted through a common admission process. Prospective students have to either (i) clear the Digital University Aptitude Test (DUAT) or (ii) possess a valid GATE/NET/JAM score in a relevant discipline.

For the MSc programs, GATE score holders with a valid score in relevant disciplines as on 1st April 2022 were exempted from taking the entrance examination. Interested UGC/NET/JAM qualified candidates in relevant disciplines were also exempted from taking DUAT for admission to MSc programs.

For the MTech programs, preference was given to the GATE-qualified candidates. The cut-off for the DUAT score for shortlisting was decided by the individual Schools on a yearly basis and can vary from one school to another. Their cut-off for the GATE score, NET, JAM and DUAT for shortlisting was decided by the individual Schools on a yearly basis. Separate rank lists were drawn up for reserved seats.

## **MBA Program**

The selection to the MBA programme of Digital University Kerala was conducted through a common admission process. Prospective students had to have a valid score (tests since Nov, 2021) in CAT (IIMs), GRE(Code: 3457), CMAT (AICTE), KMAT (Kerala), XAT (XLRI), or NMAT (GMAC) on the basis of which they will be called for Group Discussion/Written Ability Test and interview, provided they have submitted the test score cards while submitting the application. Admission rank lists were prepared on the basis of an index score by the School. Separate rank lists were drawn up for reserved seats.

## **PhD Program**

The applicants were shortlisted based on the DRAT exam score or valid GATE score. Those who have qualified NET/JRF or any other national fellowship exams approved by UGC in relevant disciplines were exempted from the DRAT exam. Appropriate relaxations in cut-off were applicable for OBC/SC/ST candidates. Statement of purpose shall be additionally required to be submitted for industry regular and part-time applicants. Appropriate weightage was given for work experience in the case of industry regular and part-time PhD applicants. The selection is based on the composite score prepared based on UGC guidelines and the criteria fixed by each School.

## **PGDeG Program**

The entry-level requirement for the programme is a Bachelor's degree in any discipline with working knowledge of computer systems. Diploma / Certification in computer application will be an added advantage. Preference will be given to B.Tech / MBA / MCA degree holders.

Sponsored Government Officials – 15 seats (selection was done by the Kerala State IT Mission). 06 Officials from Autonomous institutions, Boards, Corporations, Universities, Public Sector Undertakings etc. under the State of Kerala. The selection was done by Kerala State IT Mission.

## **Number of students admitted**

The classes for the First Semester of the new admissions 2022-2023 batch, started with the Orientation programmes on 22nd August 2022. The enrolment details are given below.

Details of Admissions to various courses 2022-23

Course	Sanctioned strength	Total
M.Sc. Data Analytics and Bio AI	90	20
M.Sc. Data Analytics and Geo-informatics		15
M.Sc. Data Analytics and Computational Science		49
M.Sc. Computer Science with specialization in Data Analytics	60	51
M.Sc. Computer Science with specialization in Cyber Security	90	73
M.Sc. Computer Science with specialization in Machine Intelligence	45	21
M.Tech Computer Science and Engineering	90	12
M.Tech Electronics Engineering	60	10
Msc Electronics	60	13
M.Sc. Ecology with specialization in Ecological Informatics	20	8
MBA	30	21
Total		293

Post Graduate Diploma in e-Governance	40	21
PhD		19

### Program Accreditations

SI No.	Title	School	Sanctioned Strength	Remarks
1	MSc Computer Science with specialization in Machine Intelligence	School of Computer Science and Engineering	45	UGC Approved
2	MSc Computer Science with specialization in Cyber Security		90	UGC Approved
3	MTech Computer Science and Engineering (Connected Systems and Intelligence, Artificial Intelligence, Cyber Security Engineering)		90	AICTE Approved
4	MSc Computer Science with specialization in Data Analytics	School of Digital Science	60	UGC Approved
5	MSc Data Analytics and Bio AI		90	UGC Approved
6	MSc Data Analytics and Geoinformatics			UGC Approved
7	MSc Data Analytics and Computational Science			UGC Approved
8	MSc Electronics (Intelligence Systems and Imaging, IoT and Robotics, VLSI Design and Artificial Intelligence)	School of Electronic Systems and Automation	60	UGC Approved
9	MTech Electronics Engineering (Artificial Intelligence-Hardware, Signal Processing and Automation, Artificial Intelligence-Robotics, Computational Imaging)		60	AICTE Approved

10	MTech Electronic Product Design (Flexible)		30	To be Offered
11	MSc Ecology with specialization in Ecological Informatics	School of Informatics	20	UGC Approved
12	Master of Business Administration (Business Analytics, Digital Governance, Digital Transformation, Finance, Human Resources, Information Security Management, Marketing, Operations, Systems, Technology Management)	School of Digital Humanities and Liberal Arts	30	UGC Approved
13	PGDeG		40	
14	PhD		--	UGC Approved

## Placement Report

Our Placement Cell has made significant strides in providing placement opportunities for our students. During the academic year, we have achieved 95% placements. In total, we had 131 students who were part of the placement process, out of which 118 students have been successfully placed in various renowned companies with a CTC range of 3LPA to 16.8 LPA. Our students' average CTC was 4.6 LPA, which is a testament to the quality of education and training we provide at our institution.

Moreover, during the academic year, our students had the opportunity to earn stipends of up to 25k per month during their internships. However, a few students left the placement cell due to personal interests or further education. Nonetheless, our Placement Cell continued to provide valuable guidance and support to all our students throughout their academic journey.

During the academic year, our Placement Cell conducted several Industrial Institute Interaction activities, including seminars by TCS and Google Cloud Ready facilitator program, to provide our students with valuable insights and prepare them for the industry's demands.

#### Placement and Internship status (2020-2022)

Sl. No	MSc (Streams)	Total no. of students	Opt out for Placement	Opted for Placement	Placed Students' Count	To be Placed, Students	Placement Percentage (%)	Internship Students' Count
1	Cyber Security	34	1	33	33	0	100%	All
2	GA	22	0	22	19	3	86%	All
3	MI	38	5	33	30	3	91%	All
4	DA	37	1	36	35	1	97%	All
	<b>Total</b>	<b>131</b>	<b>7</b>	<b>124</b>	<b>117</b>	<b>7</b>	<b>94%</b>	All

#### Industry Institute interactions

Sl No	Events	Date & Time	Activities	Remarks
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1	Industry Expectations from Budding Engineers	18 <sup>th</sup> March 2022	IEEE - IIIT Kottayam & IIC IIITKottayam invites you for a career guidance session on Industry Expectations from Budding Engineers on 18th March 2022 , 6:30 - 7:30 PM where Mr. Santosh Rao from Toyota Industries Engine India will guide you to align to the industry expectations from a fresh graduate.	Mr. Santosh Rao from Toyota Industries Engine India
2	TCS	21 <sup>st</sup> March, 2022	TCS is giving 2023 pass out students a seminar how to kick start their career early.	
3	Vishista Systems	28 <sup>th</sup> March 2022	There is an opportunity to get involved in an ML project for legacy systems modernization being undertaken by a startup launched by alumni members of IIITM-K ( <a href="https://www.vishistasystems.com/">https://www.vishistasystems.com/</a> ). They are looking for graduates who are interested in applying Machine Learning techniques to solve a problem of converting Assembler Programs to modern languages. The main criteria will be an interest to learn, analytical ability and a passion to work on solving tough problems through coding. Those who are applying will get an opportunity to discuss with the team to get more clarity on the project and the requirements. If selected, they will offer a paid internship.	
4	Google Cloud Ready	29th March, 2022	The GoogleCloudReady Facilitator program will provide you an opportunity to kickstart your career in cloud and get hands on practice on Google Cloud - the tool that powers apps like Google Search, Gmail and YouTube. Along the way, you will learn & practice concepts like computing, application development, big data & machine learning using cloud & if you get stuck, you will have your "Facilitators" who are specially trained on Google Cloud to help.	
5	Light Life Academy	02 <sup>nd</sup> April, 2022	They want to help our students improve the skills they need for their studies and careers. They would like to offer two workshops 1) Time Management workshop and 2) Advanced Presentation Techniques workshop. Both workshops could be presented in person or online.	Nikoloz Tarielashvili, Speaking   Coaching   M.Sc. Neuroscience   IT-Consultancy
6	Clouties	24 <sup>th</sup> March, 2022	Clouties ( <a href="https://clouties.in/">https://clouties.in/</a> ) located in Bangalore is having internship opportunities. Remote/summer internships will be possible. The project is related to industrial robotics automation. They are looking for students who have the following skills. 1. A decent understanding of Linux 2. Python development 3. AI/ML background would be a plus 4. Passion for robotics  A stipend of 10k to 15k based after the selection process will be offered. Interested students may apply. Last date will be 6th March for submitting the CVs.	

7	AICTE-NEAT- Invitation to join the Launch of 1 Lakh + Internship Opportunities	30 <sup>th</sup> March, 2022	NEAT Cell, AICTE, has created its own Internship Portal ( <a href="https://internship.aicte-india.org">https://internship.aicte-india.org</a> ) to facilitate the students in getting suitable internship opportunities for better employability. Currently, we have 15.1 Lakhs + Internships available on the portal (Full Time/Part Time/ Virtual Mode Internship) from various ministries, government departments, Private companies, Startups, and MSMEs. It is envisioned to reach a target of 1 crore internships by 2025.	Hon'ble Minister of Education, Sh. Dharmendra Pradhan
8	Internshala	21 <sup>st</sup> April, 2022	<p>Internshala Student Partner program (ISP 29) - a program where our students get practical exposure and learn essential skills like leadership, communication, and logical thinking. Students can visit here to apply - <a href="http://internshala.com/i/isp29-crrem">internshala.com/i/isp29-crrem</a>. The last date to apply is now 24th April'22. Also, there are no registration charges involved.</p> <p>Eligibility - College students from any degree, stream and year of study can apply for this program.</p> <p>What's in it for our students?</p> <ul style="list-style-type: none"> <li>• Professional growth while developing in-demand industry skills</li> <li>• Prestigious letter of recommendation from Internshala</li> <li>• Performance-based cash incentives, exclusive Internshala goodies, and much more</li> </ul> <p>What will the selected students do?</p> <ul style="list-style-type: none"> <li>• Help fellow students upskill themselves via Internshala Trainings</li> <li>• Connect all students of your college with the most exciting internships and jobs</li> <li>• Conduct internship awareness seminars (online/offline) in your college</li> </ul>	



## Events at Digital University Kerala

### **Delegation visit from Madhya Pradesh**

20th April-23rd April 2022

The Government of M.P. is interested in set-up up Digital University at UJJAIN (a sacred place of Lord Mahakaleshwar). As our organization is already recognized as one of the novel and leading Digital universities, as per the instruction of the MP State Government, one Government official and two staff members visited our University on 20th April-23rd April 2022 to get acquainted with the set-up of the Digital University. Dr. Alok Sinha, OSD, M.P. Government Higher Education Department, Bhopal; Dr. Sudhir Kumar Jain, Associate Professor, Vikram University, Ujjain and Dr. Ramji Yadav, Assistant Professor, Vikram University, Ujjain were among the delegates who visited our university.

### **Innovation Ecosystem visit organized by Innovation Club – DUK**

The Innovation Club - DUK organized a one-day visit for the students to the Kerala Technology Innovation Zone, Kochi during the Innovation Week celebrations organized by KSUM. The team got the opportunity to visit the Super Fab Lab and Maker

Village and explore the cutting-edge tools and machinery used during the various stages of product development. The students interacted with start-ups to understand the challenges and opportunities that exist in the start-up ecosystem.

### **DUK Empowers IKM Developers**

May 23 to 27, 2022

In order to equip them with the industry standards, a 5-day Training on React and AngularJS was conducted for the Developers from Information Kerala Mission (IKM) from May 23 to 27, 2022 by Digital University Kerala. Digital University Kerala always stands as a bridge to connect the industry and government

### **Forty-five day AI training for nextgen police concludes at DUK campus**

A fifteen-member team from the Kerala Police Department successfully completed the 45-day training program on "Capacity Building in Responsible Artificial Intelligence and Data Analytics". The valedictory function and certificate distribution function was held at Digital University Kerala, Technopark Phase 4 campus. The training primarily covered the application of AI, Machine Learning, Image Processing and Data Analytics in policing besides an International Workshop on the fast evolving Brain Computer Interface facilitating brain reading of sorts. The participants got a chance to interact with eminent national and international speakers during the workshop.

Inspector General of Police (South Zone) P Prakash distributed the certificates to the participants. Dr. Elizabeth Sherly, Dean Academics, DUK who designed the course curriculum delivered the welcome address. Dr. Saji Gopinath, Vice Chancellor Digital University, pointed out that this training shows how smart governance can be made possible by creating capacity for people working at Government organizations to develop solutions. He mentioned that predictive governance will be the next stage of citizen support solutions. He urged the police force to uphold ethics while utilizing AI and data analytics-based tools for crime detection and control. The technology has to be used in a sustainable manner for the greater good.

Speaking at the event, the Inspector General said that the team will start applying the new skills learned in policing immediately. Technologies like Artificial Intelligence and Data Analytics will help police to use these data constructively to improve policing and provide better solutions.

Five projects selected as part of the ongoing training for technology aided policing - an investigation assistant chatbot, anti-social behavior prediction on social media, crime hotspots prediction, culprit prediction using modus operandi and face attribute

manipulation were presented by the teams during the ceremony. Dr.Malu.G, Research Officer DUK who coordinated the training programme delivered the vote of thanks.

### **Value Addition Program for Information Kerala Mission Developers**

June 17, 2022

To Empower the Developers from Government sector and make them to meet with new industry Trends, Digital university Kerala conducted a 5-day Software Application Development Course for Information Kerala Mission Developers from June 13 to June17, 2022.

### **International Day of Yoga - 21 June 2022 Celebrated**

DUK has celebrated International yoga day on 21 June 2022. The event comprised of various activities such as yoga practice & demonstration sessions and talk on yoga's importance. The following programs were organized by the university: Banners about celebrations of International Yoga Day were prominently displayed. 20 posters related to the importance of yoga, various yoga asanas and their benefits were prominently displayed on the ground floor of the main building. One week yoga training session was arranged in the University main building (15.06.2022 to 21.06.2022) from 07:00 am to 08:00 am handled by the yoga trainer Ms.Chitra M.S(Joint Secretary GAD, Registrar ICFOSS). An interactive session from 11:30 am to 12:30 pm on "Focus and De-stress through Yoga" was delivered by Mrs.Uma Kalyani, Registered Dietitian and Yoga Trainer, Founder and Director of UmasNutriyoga.

### **Training Program for Mentors of ODOI (One District One Idea ) Institutions**

Kerala University of Digital Sciences Innovation and Tehcnology and K-DISC and through its district arms, the District Innovation Councils (DICs) have initiated the One District One Idea – MSME Innovation Clusters programme (ODOI). In districts core groups consisting of General Manager Industries, District Mission Coordinators/Assistant Mission Coordinators in charge of Micro Enterprise Development and Startup Village Extension Programme, faculty from the Commerce and Economics Departments in Arts and Science Colleges, Mentors of K-DISC As a part of this programme clusters have been shortlisted and the district core groups have started collecting preliminary details of the clusters. Based on the attitudes and capabilities of the clusters a few clusters are likely to be shortlisted for promotion as innovation clusters. These are likely to be allotted to academic institutions shortlisted under this EOI for action plan development and for development as innovation clusters.

**Digital India Week 2022**

Digital University Kerala is one among the cohort of 30 institutions to be supported by Chips to Startup (C2S) programme. The announcement was made by PMO India Shri Narendra Modi during the inauguration of Digital India Week 2022 GoI MeitY Digital India, MVKochi.

**National Webinar on Cyber Security and Cyber Crimes**

The Knowledge Centre in collaboration with the Kerala Security Audit and Assurance Center (KSAAC), Digital University Kerala, conducted a Two Days National Webinar on Cyber Security and Cyber Crimes from the 4th to the 5th of July 2022. The classes will be held from 7 pm to 9 pm on Zoom platform. The following topics were covered.