DIGITAL UNIVERSITY KERALA

Curating a responsible digital world

Digital University Kerala

Kerala University of Digital Sciences, Innovation and Technology

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Newsletter

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> "The Web as I envisaged it, we have not seen it yet. The future is still so much bigger than the past."

TIM BERNERS-LEE

Virtual IT Cadre Training Program for the Officials from Industrial Training Department

The 10-day Residential Virtual IT Cadre Training Program for the officers from the Industrial Training Department was held from February 13-24, 2023 at the Digital University Campus. The Virtual IT Cadre in the departments was created by the Government for the successful implantation of various e-Governance projects. The selected 30 candidates from the Industrial Training Department had undergo 10 days intensive residential training in e-Governance at Kerala University of Digital Sciences, Innovation and Technology (Digital University Kerala) Campus. The training consists of classroom sessions, interaction with senior level officials, experience sharing by practitioners etc. The ten days program included class room sessions starting from Basics of Information Systems, Principles of Good Governance and e-Governance, Core IT Infrastructure for e-Governance, Orientation to National e-Governance Plan and Digital India.

Advanced sessions like Planning and designing of e-Governance Projects, Government Process Reengineering, Preparation of critical Project documents like DPR, EoI, RFP, Service Level Agreements, Change Management, and Implementation approaches etc were included. Major e-Governance projects were explained and also included a session on Information Security based on the increasing importance of Information Security in Government systems. In order to improve their ability to create appropriate and efficient documentation, the participants were also given sessions on Microsoft PowerPoint and Excel. Participants have done a group exercise and presentation on Government Process Re-engineering and a nutshell of DPR was also prepared which was appreciated by the Additional Director of Training and the Deputy Director of Training. The possibility for the implementation was also discussed in the session. Shri. K P Sivasankaran, Additional Director of Training, Secretary, State Council for Vocational Training, Smt. Mini Mathew, Deputy Director Training, Shri. Vinod Kumar. R, Manager (e Governance - In charge), attended the concluding session.

Capacity Building Program in e-Governance and Productivity Enhancement in Workplace using ICT Tools

In order to develop and strengthen the skills, abilities of human resources of Kerala Motor Vehicle Department through providing effective orientation and awareness on various aspects of e-Governance familiarization and skillful effective usages of ICT Tools in day to day office activities and awareness and use cases of disruptive technologies like Blockchain, AI, ML, IoT etc. to the selected officials deputed for the program a Six Day, Capacity Building Program was conducted from February 20-25, 2023 at Digital University Campus. The training program was coordinated by Shri. Jayachandran. MB, Chief Technical Officer, Digital University. 28 participants were deputed as part of the first batch. Both Uniform and Administration staffs attended the program. The Training included classroom lectures, interaction with selected e-Governance Project Managers and subject experts, case studies and presentations. A full day motivational session was taken from a motivational trainer which was appreciated by most of the participants. A session on Stress

Management and Soft Skills were also conducted. The participants received training in data management, data analysis, charting and graphing, report generation, and effective report presenting techniques. Shri. Gopakumar, University Librarian, led the session, and it garnered positive comments. The concluding session was attended by Shri. Mahes. S, Motor Vehicles Inspector and Nodal Officer (Training) along with the Program Coordinator. A Post Evaluation test was conducted to assess the knowledge gained by the participants and the topper for the test was given a token of appreciation.

UBA February 2023

On the occasion of the Cancer Awareness Day on 4th February, an event consisting of a cancer awareness talk and breast cancer screening was organised by the Unnat Bharat Abhiyan Unit of the Digital University Kerala in Powdikonam ward in Uliyazhathura village, one of the five villages adopted by the University in the district of Thiruvananthapuram. The programme was conducted in collaboration with KIMSHEALTH and the ward councillor, Archana Manikandan. Unnat Bharat Abhiyan Volunteers of Digital University Kerala organised the event with the help of Coordinator Pradeep Kumar K and Dr Sreelekha Nair. The programme started with an inaugural session at 10:30 am at the Avukkulam Sree Dharma Sastha Aminity Centre at Powdikonam. Prof. K.G. Satheesh Kumar, Distinguished Professor of the School of Digital Humanities and Liberal Arts, presided over the session.
Ward Councillor Mrs Archana Manikandan lights the lamp and delivers the inaugural speech. While Pradeep Kumar K., Coordinator of the Unnat Bharat Abhiyan and Chair of the School of Digital Humanities and Liberal Arts, DUK and Ms. Parvathi, Manager of UBA at the Regional Coordinating Institution, IISER gave felicitation speeches. Dr Rithu of KIMSHEALTH gave a very informative speech on breast cancer, apart from carrying out the screening with the help of other staff from

KIMS. UBA student volunteer Abhijith S of MSc CS(Cyber Security) anchored the programme and gave the welcome speech while Dr Sreelekha Nair delivered the Vote of Thanks. Following the session, 29 women from the ward were screened by Dr. Rithu and her staff. During the event, Ms. Reshma Ramachandran of KIMS HEALTH also gave an awareness talk to the gathering. The event continued until 2:30 pm, marking an essential step in UBA's relationship with its adopted village. Other DUK-UBA volunteers included Soumya C S, Meenakshi G S, Divyasree, Jafeel V, and several DUK staff members were also part of the gathering.

DUK participated in the Exhibition at Kerala State Biodiversity Congress

DUK has participated in the Exhibition organized in connection with 2nd Kerala State Biodiversity Congress 2023 held at Govt. Arts and Science College Calicut During 18th to 20th February 2023, organized by Kerala State Biodiversity Board, Govt. of Kerala. DUK show cased is its flagship masters and research programs in the field of Ecological Informatics and Bio Artificial Intelligence. Mr. Niyas M, Mr Vishnu M and Mr. Adarsh S represented DUK in the exhibition.

DUK giving a big boost to Entrepreneurship, nurturing entrepreneurs, Batch 3 inaugurated

The Department of Industries and Commerce, Government of Kerala, has initiated an ambitious program of developing one lakh industrial units in the State during the next one year. To facilitate the formation and growth of these enterprises, the department has already recruited 1153 project executives who are expected to have technical and managerial knowledge to work as resource counselors and link pins with government departments and agencies to ensure the smooth establishment and accelerated development of entrepreneurship and MSMEs across Kerala. In this connection, the Department of Industries has approached Digital University Kerala to augment the managerial skills of these project executives.

DUK has designed an eight-month Certificate Program in Small Business Management in a synchronous multimodal format covering various aspects of the growth of MSME units. "The Certificate program in Entrepreneurship: Small Business Management" is one of its kind courses in the country tailormade to provide a foundation for those passionate about starting, building, managing, or mentoring small businesses. Not only does the program introduces participants to the fundamentals of managing a small business, from developing a business plan to implementing it but also equips an entrepreneur to leverage the best-suited digital technologies for their business. The program is conducted in 3 batches with 300 participants each. Batch 1 (Trivandrum cluster) commenced in Oct 2022, Batch 2 (Cochin cluster) commenced in December 2022.

The inauguration and first networking session for the Post Graduate Certificate program in Entrepreneurship: Small Business Management for Batch 3 (Calicut Cluster) is held on 10-11 Feb 2023 at St Josephs's College Devagiri Calicut. Hon. VC presided over the inaugural function on 10 Feb 2023. Prof. Ananthakuttan Unnithan, Mentor Professor at IIM K inaugurated the program, and Keynote address was delivered by Mr. MA Mehaboob, President of Malabar Chamber of Commerce. A panel discussion on Opportunities and Challenges for MSMEs in Kerala was highly received by the participants.The following internal resources from DUK facilitated the Networking 1 sessions at Calicut. Prof Alex James, Prof Satheesh Kumar, Dr. Jose Joseph, Mr. Pradeep Kumar, Mr. Jayachandran, Dr. Gopakumar, Mr Manoj, Mr Prasanth, Mr. Niyas, Ms. Ramya, Ms. Jinsha, and Dr. Sini V. Pillai.The course is structured in a way that one gets to learn the application of sound management principles to real-life business situations.

Post Graduate Certificate Program in Entrepreneurship: Small Business Management- Batch 3 at St. Josephs College Devagiri, Calicut

Gave a Talk on "AI for Earth Observation"

Prof. Mihai Datcu, German Aerospace Center, DLR and Politehnica University of Bucharest (UPB), visited Digital University Kerala. He gave a talk on "AI for Earth Observation" in which several AI techniques and their use cases in agriculture and urban mapping were discussed.

DUK Students Visit Fab Lab

Students of Digital University Kerala (DUK) visited Fab Lab, a digital fabrication facility functioning as a rapid prototyping platform supporting innovation. The field visit organised by Institutions Innovation Council (IIC) and the Innovation Club provided students a chance to get first-hand experience about various activities taking place at Fab Lab and how it benefits an entrepreneur.

Celebrated International Mother Language Day

Digital University Kerala (DUK) observed the International Mother Language Day on 21st February by taking a pledge that highlighted the importance of mother tongue. Students, faculty and staff joined the function.

Workshop on "Innovation & Entrepreneurship"

A workshop on "Innovation & Entrepreneurship" was held at Government Industrial Training Institute for Women Kazhakoottam by Digital University Kerala's Institution's Innovation Council (IIC) and Innovation Club DUK. The session was conducted by Dr. Malu G, Research Officer, DUK.

Digital Access for Community Empowerment

Digital Access for Community Empowerment (DACE) is a 3-credit, 300-level core course conducted by the School of Digital Humanities and Liberal Arts for all Master's programmes in Digital University Kerala. This year this course was conducted in collaboration with Loyola Extension Services (LES), Sreekaryam at their campus. Divided into six batches, all the first-year students of Post Graduate courses attended this twelve-day programme. Participants were expected to gain exposure, beyond classrooms, to communities around them. In the process of interaction with members of the community which they visit, they were to come across important issues that the former faces. Students methodically were to recognize the main problems and looked for digital solutions. For this, classroom lectures on theories and methods of social research were delivered to students. Fieldwork tools and techniques were explained, focusing on the Participatory Rural Appraisal. Class room activities prepared each group mentally for community fieldwork, making them aware of the challenges in meeting total strangers and asking them questions on community problems that sometimes overlap with their personal issues. After two days of intense preparation to enter the communities, students went for fieldwork on the third day. All field sites were in Thiruvananthapuram District and consisted of urban slum, coastal community, agricultural and tribal communities. Community contacts and fieldwork assistance were available and students were guided while approaching the Key Informants, leaders and members of the community. One day of intensive interaction with the community, in most cases, enabled the students themselves to identify important problems that the community faced. Second fieldwork after two days to think over and systematically arrange the data they collected on the first day specifically was meant to look for digital solutions for the important problems of the community. One major challenge in this was the different levels of exposure of the community members to digital technology. Many of the issues could be overcome with attitudinal changes and a mix of both technological solutions with social change has been found necessary. This brief description of the DACE programme of 2023 will be followed by narratives by students themselves on their experience.

D A C E

Digital Access for Community Empowerment

Gave a Talk on "Natural Language Processing for Improving Public Health"

Dr. Anoop V S gave a talk on "Natural Language Processing for Improving Public Health" for the ATAL Faculty Development on Recent Advances and Challenges in Artificial Intelligence, Machine Learning & Blockchain Technology (RACAMBT-2023) organzied by Amrita University, Coimbatore, on March 04, 2023

Dr.Anoop V S
Research Officer
School of Digital Sciences

Best Research Story Prize for AWSAR 2022

Teenu S. John a research scholar under Dr. Tony Thomas has won the best research story prize for AWSAR 2022, organised by DST.

Teenu S. John
Research Associate

Congratulations!

CISCO thingQbator Quiz Competition Winners

Faculty Publications

- Anoop V. S., "Public discourse and sentiment during the Mpox outbreak: An analysis using natural language processing", Public Health, Elsevier (Q1, IF: 4.984, SCI).
- Kunnath, S. K., George, V. M., Kumar, K. G. S., & Babu, A. (2023). Disability Empowerment in Kerala: A Status Analysis and Vision for the Future. Journal of Developing Societies, 0(0). https://doi.org/10.1177/0169796X221150482

Paper Presentations

- Anoop V. S., ""ChatGPT, do my homework" - Will ChatGPT be an integrity threat to educational ethics? An analysis", 8th International Conference on Computing, Communication and Security (ICCCS'23), Springer CCIS.
- Dr. Sini V. Pillai participated in Katastasi: International Case Writing Competition as part of the Research Conference and was shortlisted to present a case study on Fire in the EV Market: Case on Electric Vehicle Explosions in India on February 24 at the Fortune Institute of International Business (FIIB), New Delhi, India.
- Mahendra K.S., " A COMPREHENSIVE STUDY ON THE IMPORTANCE OF INDUSTRY INSTITUTE INTERACTIONS" 2nd International Conference on Multidisciplinary Research Towards Sustainable Development organized by the Indian Academicians and Researchers Association.

Software of the month

OBS (Open Broadcaster Software)

https://obsproject.com/

Open Broadcaster Software

OBS is a free and open-source software application for live streaming and video recording. OBS is popular among content creators, gamers, and anyone looking to create professional-quality videos for online platforms such as Twitch, YouTube, and Facebook.

With OBS, users can capture and mix different video and audio sources, including webcams, microphones, and desktop screens. They can also add various visual effects and overlays to their streams or recordings, such as text, images, and animations. OBS is available for Windows, macOS, and Linux and supports a wide range of video and audio formats. Additionally, OBS has a large community of users who have created many plugins and .integrations that expand the software's functionality. One of the main features of OBS is its ability to capture and mix multiple video and audio sources. Users can easily switch between different cameras, desktop screens, or video files and combine them into a single video stream or recording

Website of the month

Photopea

https://www.photopea.com/

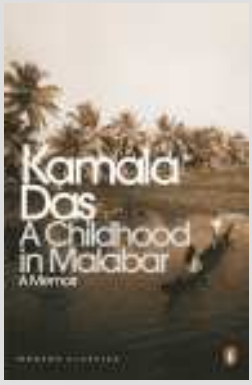
Photopea

Photopea is a free, web-based image editor that allows users to create, edit, and manipulate images and graphics. It is a powerful and versatile tool that can be used for a wide range of design and editing tasks, from creating social media graphics and website banners to retouching photographs and creating illustrations.

One of the main advantages of Photopea is that it is accessible from any web browser without requiring any software downloads or installations. This makes it a convenient and portable option for users who need to edit images on the go or across multiple devices. Photopea supports a wide range of file formats, including PSD, XCF, Sketch, and SVG. Users can open and edit files from various design software programs, such as Adobe Photoshop or GIMP.The tool includes many features and functions as traditional desktop image editors, including layers, masks, and various selection tools. It also has a range of advanced editing tools, such as clone stamp, content-aware fill, and perspective transformation. Photopea includes various design and layout features, such as text tools, vector shapes, and blending modes. This makes it a versatile tool for creating graphic designs and digital illustrations.

Book Review of the Month

A Childhood in Malabar: A memoir by Kamala Das



Kamala Suraiyya, with the pen name Madhavikutty was one of the famous Indian Women writers who wrote in both English and Malayalam. "A childhood in Malabar: A Memoir" is a biographical story of Kamala Das and was translated by Ms. Gita Krishnankutty. Kamala Suraiyya, with the pen name Madhavikutty was one of the famous Indian Women writers who wrote in both English and Malayalam.

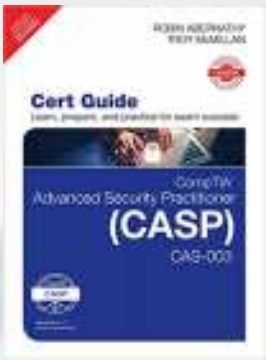
"A childhood in Malabar: A Memoir" is a biographical story of Kamala Das and was translated by Ms. Gita Krishnankutty. Kamala Das was born on 31st March 1934 in Thrissur District, Kerala, and most of her childhood was spent in Calcutta and Punnayurkulam, Kerala.

This book is about her childhood memory at her ancestral home in Kerala. It is not a simple thought of a 15-year-old young girl, but she imparts the intense human relationship and their emotions. Her writing style explores the feminine desire and pain in Kerala's simple and peaceful village surroundings. During those days, women were expected to be obedient to elders and could not participate in decision-making.

Overall, it is a good book from a strong activist for women's rights and empowerment with honesty and social responsibility. I recommend this book for our younger generation as it gives a vital insight into the lives of rural Kerala in the early 20th century.

Lekshmi V,
Research Scholar
SOESA

CompTIA advanced security practitioner (CASP) CAS-003 : Cert Guide



CompTIA Advanced Security Practitioner (CASP) CAS-003 Cert Guide is a best-of-breed exam study guide. Leading security certification training experts Robin Abernathy and Troy McMillan share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques.

Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan.

Source :Amazon

Abernathy, Robin(2022) CompTIA advanced security practitioner (CASP) CAS-003 : Cert Guide, Noida, Pearson.

Blockchain for industry 4.0: Emergence, challenges, and opportunities

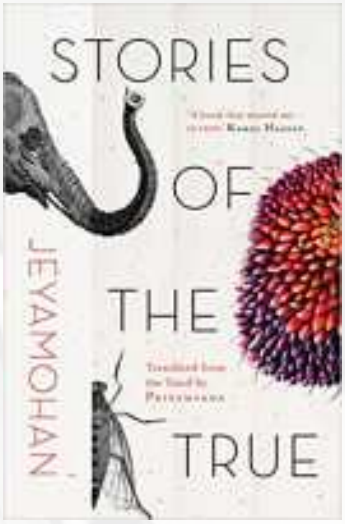
This reference text provides the theoretical foundations, the emergence, and the application areas of Blockchain in an easy-to-understand manner that would be highly helpful for the researchers, academicians, and industry professionals to understand the disruptive potentials of Blockchain. It explains Blockchain concepts related to Industry 4.0, Smart Healthcare, and the Internet of Things (IoT) and explores Smart Contracts and Consensus algorithms.

This book will serve as an ideal reference text for graduate students and academic researchers in electrical engineering, electronics and communication engineering, computer engineering, and information technology.

Source :Amazon

Anoop, V S (Ed.),Asharaf, S., Goldston, Justin & Williams, Samson (2023) Blockchain for industry 4.0: Emergence, challenges, and opportunities, Boca Raton, CRC Press.

Stories of the true



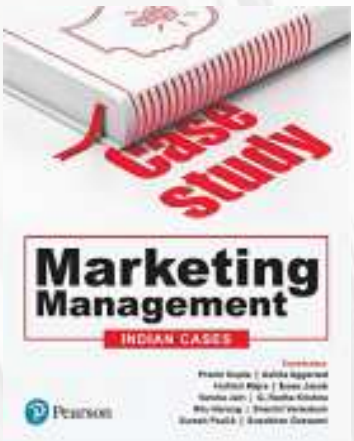
Containing iconic stories like 'Elephant Doctor' and 'A Hundred Armchairs', this collection by the great Tamil writer Jeyamohan, brings together twelve inspiring and imaginative narratives, all based on the lives of real people. These stories explore the capacity of humans to hold on to their intrinsic goodness in the face of both the everyday and the extraordinary, and how their response in such moments of truth finds expression in multitudinous ways – as anger, compassion, fortitude, a capacity for suffering, self discovery, a life of silent protest or even eccentric activism.

Gripping, often raw and deeply moving, this striking collection, the first major translation of Jeyamohan's work in English, will renew your faith in humanity.

Source :Amazon

Jeyamohan(2022) Stories of the true, New Delhi, Juggernaut Books.

Marketing management: Indian Cases

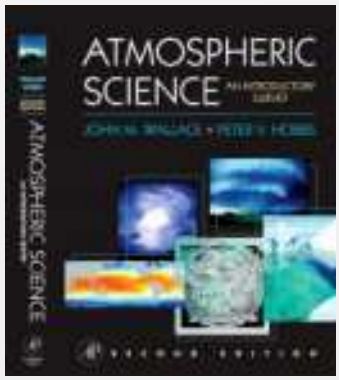


Marketing Management: Indian Cases is a casebook companion aimed to help readers understand the concepts of marketing in the Indian context. The booklet carries 23 contemporary cases which provide in-depth analysis of different marketing principles and theories as applied by various companies in India and Asia. This casebook will be useful for students pursuing MBA and PGDBM courses.Features Explore marketing mix with MTR Foods Understand customer value with India's e-commerce space and Flipkart Delve into the world of Information System and data utilization with Starbucks and Amazon Learn to leverage corporate trust and technology strength in the B2B market with Zicom Comprehend marketer's challenges and complexities with Facebook's strategies in India and China Mahindra and Mahindra explains consumer segmentation strategies Kellogg's Corn Flakes shows the way to find market for a product Fevicol demonstrates how to reinvent brand and sales Oreo illustrates the advantages of effective integrated marketing communication Comprehend digital marketing with Wonder Cement Unilever shows the way to build brand and market with holistic marketing initiatives.

Source :Amazon

Gupta, Prachi (2018) *Marketing management: Indian Cases,* Uttar Pradesh, Pearson India Education Services Pvt. Ltd.

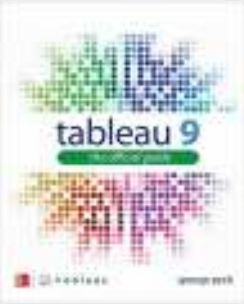
Atmospheric sciences: An introductory survey



Atmospheric Science, Second Edition, is the long-awaited update of the classic atmospheric science text, which helped define the field nearly 30 years ago and has served as the cornerstone for most university curricula. Now students and professionals alike can use this updated classic to understand atmospheric phenomena in the context of the latest discoveries, and prepare themselves for more advanced study and real-life problem solving. his latest edition of Atmospheric Science, has been revamped in terms of content and appearance. It contains new chapters on atmospheric chemistry, the Earth system, the atmospheric boundary layer, and climate, as well as enhanced treatment of atmospheric dynamics, radiative transfer, severe storms, and global warming. The authors illustrate concepts with full-color, state-of-the-art imagery and cover a vast amount of new information in the field. Extensive numerical and qualitative exercises help students apply basic physical principles to atmospheric problems.

Source :Publisher
Wallace, John M (2006) Atmospheric sciences: An introductory survey, UK, Elsevier.

Tableau 9: The official guide



Deliver meaningful BI visualizations and real-time dashboards to users across your organization—quickly and easily. Written by an experienced author and certified trainer, Tableau 9: The Official Guide offers step-by-step instruction, best practices, examples, and downloadable video tutorials. See how to get up-and-running on Tableau, load data, drag and drop components, add graphics and maps, create complex calculations, and distribute dynamic dashboards and stories. This practical book teaches how to work with Tableau Server, write custom programs, and publish your results to the Web.

Source :Amazon
Peck, George (2020) Tableau 9: The official guide, Chennai, McGraw Hill Education.

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- Cyber Security Engineering

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- Signal Processing and Automation
- Artificial Intelligence Robotics
- Computational Imaging

MTech Electronic Product Design (Flexible)

M.Sc. Computer Science
- Cyber Security
- Machine Intelligence
- Data Analytics

M.Sc. Data Analytics
- Data Analytics & Bio AI
- Data Analytics & Computational Science
- Data Analytics & Geoinformatics

M.Sc. Electronics
- Intelligent Systems and Imaging
- IoT and Robotics
- VLSI Design and Artificial Intelligence

M.Sc. Ecology
- Ecological Informatics

Post Graduate Diploma
- e-Governance

MBA - Regular
- Business Analytics
- Digital Governance
- Digital Transformation
- Finance
- Human Resources
- Information Security Management
- Marketing
- Operations
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- Technology Management

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- Part-time Regular PhD
- Industry Regular PhD

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Kerala University of Digital Sciences, Innovation and Technology
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Thiruvananthapuram, Kerala – 695317

Call for Applications opens in March-April 2023

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DIGITAL UNIVERSITY KERALA

Curating a responsible digital world