



# INN TRACE

28 FEB 2023

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## FROM THE EDITOR'S DESK



**Dr. P. V. Unnikrishnan**  
Member Secretary,  
K-DISC

February is the birthday month of the man who is widely considered as the Father of Innovation, Joseph Schumpeter. He was an Austrian political economist who served as the country's Finance Minister before moving on to become a Professor at Harvard University. Schumpeter popularised the idea of 'creative destruction' or the dismantling of long-standing practices in order to make way for innovation, in his 1942 book *Capitalism, Socialism and Democracy*. He identified innovation as the critical dimension of economic change and argued that technological innovation often creates temporary

monopolies. Innovation or coming up with ideas that can create value in society, is at the core of all K-DISC programmes. The focus is on real-life problem solving and critical thinking. This month, the Young Innovators Programme undertook the gargantuan exercise of conducting workshops of Government Departments in all the districts in order to generate Problem Statements that will eventually go to populate the Shelf of Projects for ideators to choose from. Needless to say this activity will enrich YIP while proving to be a shot in the arm for real-life problem solving in the State. Knowledge Mission's initiatives like Thozhiltteerem and Thozhilarangathekk are sure to address the employment needs of the marginalised fisher folk community and women respectively.

## YIP DEPARTMENTAL WORKSHOPS

As part of the Young Innovators Programme 5.0, workshops were conducted for Government Departments in all 14 districts during the month of February 2023 with the idea of collecting Problem Statements. 1297 functionaries from 47 Departments took part in the two-day exercise which kick-started at Thiruvananthapuram and Alappuzha on 8th and culminated in Malappuram on the 22nd. Smt V. Vigneswari IAS, Director of Collegiate Education, inaugurated the workshops in Thiruvananthapuram. The workshops were facilitated by the YIP Program Executives and Coordinators as

well as 93 nodal officers of IEDC. They were aided in the documentation activities by 739 college students in the form of interns. The interns were imparted training in their respective districts by ICT Academy team of trainers headed by Dr. A. S. Manoj. Respective District Collectors presided over the inaugural ceremony in the districts. The Problem Statements pertaining to real-life issues that were collected totalled 1868. These are being curated before passing on to Communities of Practice for vetting. Here are some glimpses from the workshops across the State:



## YIP SHASTHRAPADHAM CAMPS

Two-day residential camps were held in 168 BRCs (Block Resource Centres) across the State as part of YIP - Shasthrapadham for school ideator teams. Ten teams qualified for each BRC. The students were given hands-on training in Design Thinking fundamentals.

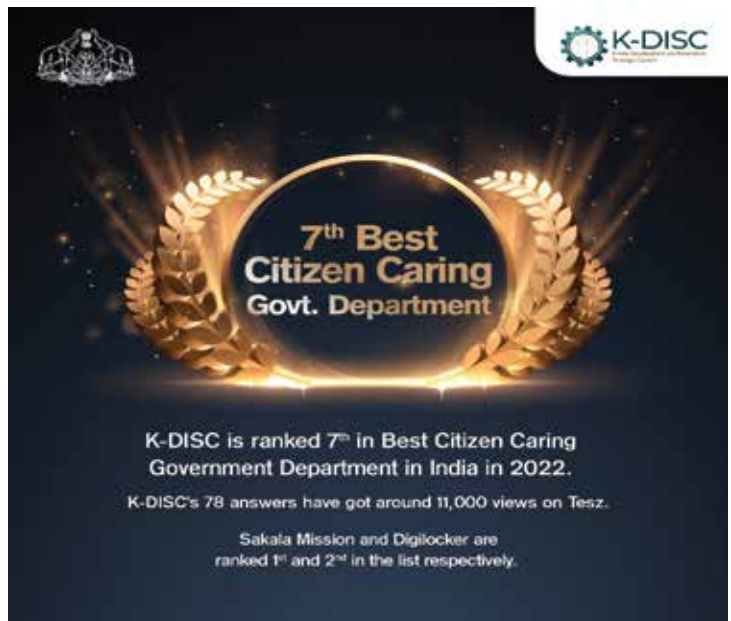
Some glimpses from the camps: 



Dr. P. V. Unnikrishnan with the founders of Genrobotics, a company specialising in the design and development of robotic-powered exoskeletons and human-controlled robotic systems.



Mathrubhumi International Festival of Letters



K-DISC chosen 7th in Best Citizen Caring Government Department awards



## OLOI LAUNCH

Shri M. B. Rajesh, Hon. Minister for LSGD released the One Local Government One Idea handbook jointly brought out by K-DISC and KILA by handing over a copy to Dr. Sharmila Mary Joseph IAS, Principal Secretary, LSGD.



## MAZHAVILLU

Mazhavillu stall at Kerala Science Congress



As a part of Project Mazhavillu a stall was set up in the 35th Kerala Science Congress held at Mar Baselios Christian College of Engineering and Technology, Idukki from 10th to 14th February 2023. Mazhavillu got the opportunity to set up such a stall along with other stalls of the Kerala Forest Research Institute, Peechi, one of the learning centres. Posters were displayed in the stall containing the objectives, importance, working methods of Mazhavillu, misconceptions children have while learning science and facts that every person should know to live without being stuck in the society.

Junior Program Executives Pratheeksha Shaju, Midhila K.T. and Nanditha N.R. with Dr. T.V. Sajejev Academic Coordinator, Project Mazhavillu at the stall.

## EXPLORING THE RAINBOW OF POSSIBILITIES



Project Mazhavillu is one of the ambitious projects under K-DISC to enhance critical thinking, analytical thinking and to promote scientific temper among students with the motto,

“Teach Science of Kerala “. The project mainly focuses on school students from class 3rd to 7th and aims to instill an understanding of science subjects through activity based learning sessions. K-DISC currently runs the project at five centres in Kerala and Maharaja’s College, Ernakulam is one among them. From the beginning onwards Maharaja’s college stood firm with the project, opening up all the facilities to promote curiosity and enthusiasm among students. With the collective effort of Junior Programme Executives (3), Volunteers (5) and Academic Coordinator, the project runs successfully till date.



Rhea (Rhea Americana)



Sambar Deer (Rusa Unicorn)

“Tell me and I forget, teach me and I remember, involve me and I learn”. The best way to learn is by involvement. As part of the theme, on 18/02/2023 Mazhavillu - Maharajas undertook a field visit to Thrissur Zoo and the Art Museum.

The Zoo offered a great deal of birds as well as other animals which also includes different varieties of snakes. Observing them at this close was a nice experience for the students. Art and Archeological Museum also gave a wonderful experience to students. It was like taking the students for a walk through history. They got to see things from the past, the things people used and got a feel of how the human past could be studied using ‘artefacts’ and ‘features’.



Casket presented by Cochin Latin Christian Congress



Bagasuran



Carvings and sculptures made of ivory and wood



Napatric portlight used in Njarakkal



Clocks of ancient era



Stuffed Birds

Skelton of an Elephant  
(Chengalloor  
Ranganathan - 11.5')

Skull of a Whale

The journey got more interesting with the visit of "Multipurpose Museum ". They got to see a great deal of things at the museum. What made them wonder was the 11.5 feet height Elephant fossil in the entrance as did the skull of a whale.



Lord Krishna



Bheeman

The field trips were envisaged as an opportunity to foster experiential learning. It was very clearly demonstrated that students can go beyond concepts in the textbook by experiencing it in real life.

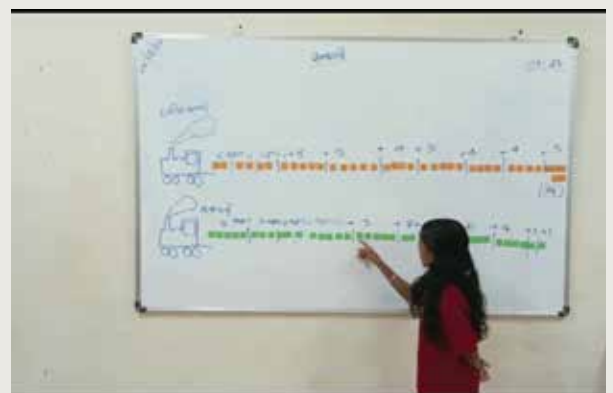
## MANCHADI

### MANCHADI – TEACH MATHS FOR KERALA

"Manchadi" the Innovative method of Mathematics learning in Kerala, school level education, ensures a completely different learning experience of Mathematics among children. Learning based on a situation is more powerful than a passive learning process, Manchadi always promotes a way of learning from the situations.

### THEEVANDI ACTIVITY

In our experiences from Ekalavya Model Residential School, Painavu, Idukki, students are very fond of learning Mathematics through this new method. Here we are creating different situations in our class to explore Mathematics differently. One best example is - an activity of introducing "addition symbol" to the statement. The activity is named Theevandi. This activity enables the children to make a deep understanding of addition operation, the connection of the symbol with the numbers. Students easily recognize the relationship between the number and symbols and attain a precise result through this activity. Such activities help children understand concepts better and improve their confidence in application.

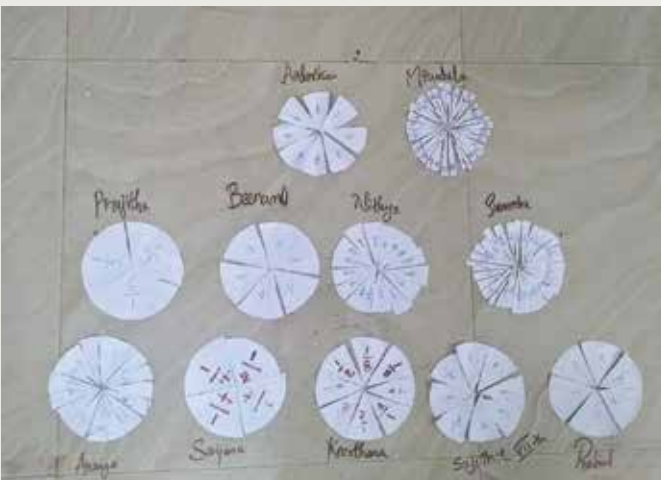

**INTRODUCTION TO FRACTION**



“Introduction to Fraction” is another concept of Mathematics which is a complicated concept of for children. Through Manchadi activities, we made it so easy and interesting that students could understand the concept deeply and thoroughly. Pupils are engaging in studying fraction with overwhelming enthusiasm and interest. An activity named “Oru Muri Bhinna Sangya” deals with unit fraction concept, which could create a novel learning experience in children about fraction via different stories, games and situations. Through these activities, they could recognize what fractions really meant in day to day life. Now students are capable of identifying, comparing and arranging different fractional numbers without any hesitation and fear.



Students doing Ganith Maala activity "one number to another number". The child is finding the difference of two numbers hanging in Ganith Maala by using forward counting and by seeing the structure of ten. With this activity, they acquire the knowledge of Samkhya Dhaarana up to 100



Students playing the game “Appam Muzhuvanakkal Kali” and understanding the concept of fraction as a part of a whole.



Students enthusiastically engaged in “Alakkal activity” and making place cards. They prepared their own place card set for the Sanghyamala Clip 3 activity, which helped them in laying strong foundations in measurement as well. Students actively engage in discussions in the Manchadi classes, which improve their communication skills and critical thinking.

## KERALA KNOWLEDGE ECONOMY MISSION

### Thozhiltheeram - A Comprehensive Initiative for the Fisherfolk Community

The Kerala Knowledge Economy Mission launches a new project for the fisherfolk community to skill and employ educated community members in association with Kerala Fisheries Department. A State level conceptualization workshop was held on 13th February at Govt. Guest House Thiruvananthapuram in the presence of Hon. Minister for Fisheries Mr. Saji Cheri-

yan. Dr. Adila Abdullah IAS, Director of Fisheries and Mr. Sheik Pareeth IAS, Managing Director at KSCADC were present along with other guests, experts and community representatives. It has been decided to skill 10000 educated youths from the community and to employ 2000 individuals from the community through the Thozhiltheeram project next year.



### Thozhilarangathekku - State-Level Inauguration

Gender gap in knowledge jobs is a backlash in modern society, in order to resolve the issue the Kerala Knowledge Economy Mission introduced a new systematic and inclusive project to employ educated women, career-break women, girl students and final year/alumni from different universities across state and registrants from Knowledge Job Units through Kudumbasree and Employment

officers. The Thozhilarangathekku project was inaugurated by Hon. Minister for Labour and General Education Adv. V. Sivankutty on 6 February at Hycinth Hotel Thiruvananthapuram in the presence of dignitaries and invited personalities. Fourteen District Job fairs were organised statewide to employ the maximum number of Women by March 8 as the first phase of the project.

## LAUNCH OF KERALA SKILLS EXPRESS



Kerala Knowledge Economy Mission has started a unique campaign named "Kerala Skills Express" to find talent spots and build talent ecosystems in the higher educational institutions in the State.

The program focuses on 250 colleges across Kerala and will provide an opportunity for talented students to connect with job opportunities and learn about the latest trends in the industry. With this campaign, KKEM intends to provide 10000 jobs, 10000 internships and enrol 50000 learners from the Higher Education Institutions across the State into various skill programmes offered by the skill partners of KKEM. Kerala Skill Express was launched on 23rd January 2023. Hon. Finance Minister Shri. K. N. Balagopal inaugurated the event. Dr. K. M. Abraham, Executive Vice Chairperson, K-DISC and Dr. P. V. Unnikrishnan, Member Secretary, K-DISC took part in the workshop.





### Community Ambassadors Training

In order to strengthen the mobilisation activities of Kerala Knowledge Economy Mission, an online training was conducted for the community ambassadors of all the 14 districts of the state. The training was led by the Mobilisation Team with the support of the curation and counselling team under the guidance of Dr. C. Madhusudhanan, State Programme Manager, KKEM.



Live demonstration of the DWMS Platform was shown during the training. Steps for DWMS registration, job matching, application and how to use the career support services were explained during the session. The queries from the field we also addressed as part of this session.

### Association with Common Service Centres (CSC)

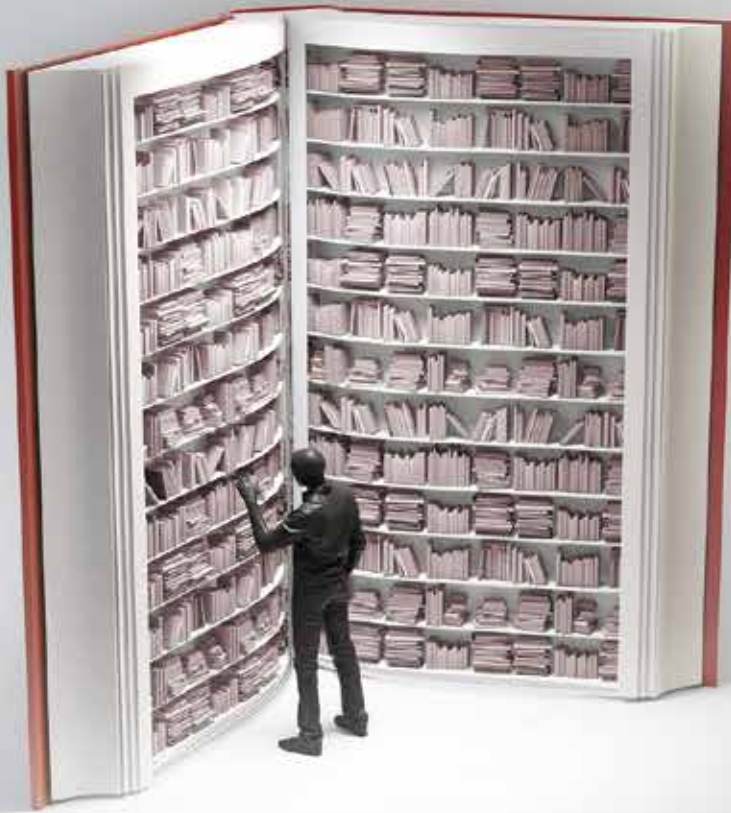
Kerala Knowledge Economy Mission (KKEM) is undertaking many programmes to encourage the enrolment of Job Seekers into Digital Workforce Management System (DWMS). In order to strengthen

the registration process in rural areas, especially among those jobseekers who lack the facilities to get themselves enrolled in DWMS, an association with CSC e-Governance Services India Limited will be highly beneficial. They have a network of 5000+ Village Level Entrepreneurs(VLE) who can help those job seekers who lack facilities to enrol in DWMS and also support them in using the services offered through the platform. The inauguration of the association was held on 15th February 2023. Dr. P. V. Unnikrishnan, Member Secretary, K-DISC inaugurated the event. The inauguration was held as a Facebook Live event and was attended by the VLEs. Dr. B. Rajeevan, State Head, Kerala, CSC e-Governance Services India Limited discussed the possibilities of this association and encouraged the VLEs to promote the KKEM and DWMS through their centres.



## BOOK TALK BY BIJU PARAMESWARAN

**Sam's Twelve Commandments:  
For the Indian Entrepreneur by Sam Santhosh**

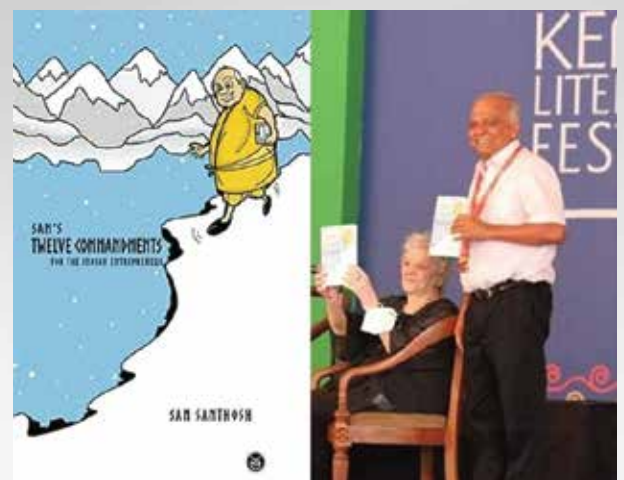


Has it ever occurred to you that the misfortune of Abhimanyu in the Mahabharatha was that he lacked an 'exit strategy?' Or, unconventional as it may sound, an entrepreneur should choose the idea with the best potential and not one that she is passionate about? These and more aphorisms are courtesy "Sam's Twelve Commandments: For the Indian Entrepreneur", a book by Sam Santhosh who is often referred to as the Genome Man of India.

Entrepreneurs might do well to abide by these edicts and here's why. Armed with a Mechanical Engineering degree from Government Engineering College, Thrissur and an MBA from Indian Institute of Management, Kolkata, Sam set up Calsoft, a digital product engineering services company before pioneering the genomics revolution in India with research-based solutions in diagnostics and new drug discovery in the genomics sector. As founder of the multinational SciGenom Labs and Managing Trustee of SciGenom Research Foundation, he

has been promoting scientific research and education in India. Sam works towards creating a medical plant garden based on the 17th century magnum opus 'Hortus Malabaricus' (Garden of Malabar) at his hometown of Thrissur, Kerala even as he explores newer technologies in the areas of Proteomics and High-Plex Technologies by leveraging on Next Generation Sequencing (NGS) and Bioinformatics. Sam is an independent member of the Governing Body of Kerala Development and Innovation Strategic Council (K-DISC).

The book under review was published by DC Books and released by the 2009 Chemistry Nobel Laureate Ada E. Yonath at the Kerala Literature Festival in Kozhikode in January 2023. An interesting blend of history, science and business, it is an inspiration for the next generation of Indian entrepreneurs. Even as India's growing economy, business-friendly policies and the availability of new technologies have spawned thousands of startups in the country, the fact remains that first-time entrepreneurs face several challenges in their entrepreneurship journey. The journey from deciding the right time to make the plunge to raising funds to exiting successfully is a bumpy ride. Sam Santhosh draws from his wealth of over 35 years of experience in starting and building successful companies in the fields of Software and Genomics, both in the U.S and in India, to provide practical guidelines for creating and sustaining successful ventures. Laced with humour and embellished with illustrations, this delightful book is a must-read for all entrepreneurs.





# K-DISC IN THE NEWS

**യങ് ഇന്നവേറ്റേഴ്സ് പ്രോഗ്രാം: ശില്പശാല**

പാലക്കാട് കെ-ഡിസ്കിന്റെ ആഭിമുഖ്യത്തിൽ രണ്ട് ദിവസത്തെ തുടർച്ചയായി സംഘടിപ്പിച്ചിരുന്ന യങ് ഇന്നവേറ്റേഴ്സ് പ്രോഗ്രാമിന്റെ ഭാഗമായി സർക്കാർ വകുപ്പുകളുടെ ശില്പശാലകൾ സംഘടിപ്പിച്ചു.

ശില്പ പദ്ധതിയായ കോൺഫറൻസ് ഫോളോയിംഗ് നടക്കുന്ന വിവിധ ശില്പശാലകളിലെ പങ്കെടുത്തവർക്ക് കെ-ഡിസ്കിയിൽ തങ്ങളുടെ കരുതലുകൾ, സിദ്ധാന്തങ്ങൾ, പ്രശ്നങ്ങൾ എന്നിവയെക്കുറിച്ച് അഭിപ്രായങ്ങൾ സഹായകരമായി വിശദീകരിക്കാനും കൈമാറ്റം ചെയ്യാനും അവസരമുണ്ട്.

പാലക്കാട് കെ-ഡിസ്കിന്റെ യങ് ഇന്നവേറ്റേഴ്സ് പ്രോഗ്രാമിന്റെ ഭാഗമായി സംഘടിപ്പിച്ച ശില്പശാലകളിൽ പങ്കെടുത്തവർക്ക് കെ-ഡിസ്കിയിൽ തങ്ങളുടെ കരുതലുകൾ, സിദ്ധാന്തങ്ങൾ, പ്രശ്നങ്ങൾ എന്നിവയെക്കുറിച്ച് അഭിപ്രായങ്ങൾ സഹായകരമായി വിശദീകരിക്കാനും കൈമാറ്റം ചെയ്യാനും അവസരമുണ്ട്.

**കെ-ഡിസ്കിയുടെ ആശയക്കുഴപ്പം**

പാലക്കാട് കെ-ഡിസ്കിന്റെ യങ് ഇന്നവേറ്റേഴ്സ് പ്രോഗ്രാമിന്റെ ഭാഗമായി സംഘടിപ്പിച്ച ശില്പശാലകളിൽ പങ്കെടുത്തവർക്ക് കെ-ഡിസ്കിയിൽ തങ്ങളുടെ കരുതലുകൾ, സിദ്ധാന്തങ്ങൾ, പ്രശ്നങ്ങൾ എന്നിവയെക്കുറിച്ച് അഭിപ്രായങ്ങൾ സഹായകരമായി വിശദീകരിക്കാനും കൈമാറ്റം ചെയ്യാനും അവസരമുണ്ട്.

**YIP workshop begins at TKM College**

*The Hindu Bureau KOLLAM*

District Collector Afsana Parveen on Wednesday inaugurated a two-day workshop of government departments as part of the Young Innovators Programme (YIP) that aims at empowering future innovators. Kerala Development and Innovation Strategic Council has provided the participants a platform for brainstorming as part of the workshop being held at the TKM College of Engineering.

"The problems faced by government departments can be solved through innovative ideas and students can help for this. The aim of the government is to make the students also participants in the development of the country," said Ms. Parveen.

**യങ് ഇന്നവേറ്റേഴ്സ് പ്രോഗ്രാം ശില്പശാല**

സർക്കാർ വകുപ്പുകളുടെ പ്രവർത്തനം മെച്ചപ്പെടുത്താൻ വിവിധ മേഖലകളിലെ യുവജനങ്ങളുടെ നൂതന ആശയങ്ങൾ ഉപയോഗിച്ച് യങ് ഇന്നവേറ്റേഴ്സ് പ്രോഗ്രാമിന്റെ ഭാഗമായി സംഘടിപ്പിച്ച ശില്പശാലകൾ പാലക്കാട് കെ-ഡിസ്കിയിൽ തങ്ങളുടെ കരുതലുകൾ, സിദ്ധാന്തങ്ങൾ, പ്രശ്നങ്ങൾ എന്നിവയെക്കുറിച്ച് അഭിപ്രായങ്ങൾ സഹായകരമായി വിശദീകരിക്കാനും കൈമാറ്റം ചെയ്യാനും അവസരമുണ്ട്.

**ശില്പശാലകൾ**

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**യങ് ഇന്നവേറ്റേഴ്സ് ശില്പശാല തുടങ്ങി**

പാലക്കാട് കെ-ഡിസ്കിന്റെ യങ് ഇന്നവേറ്റേഴ്സ് പ്രോഗ്രാമിന്റെ ഭാഗമായി സംഘടിപ്പിച്ച ശില്പശാലകളിൽ പങ്കെടുത്തവർക്ക് കെ-ഡിസ്കിയിൽ തങ്ങളുടെ കരുതലുകൾ, സിദ്ധാന്തങ്ങൾ, പ്രശ്നങ്ങൾ എന്നിവയെക്കുറിച്ച് അഭിപ്രായങ്ങൾ സഹായകരമായി വിശദീകരിക്കാനും കൈമാറ്റം ചെയ്യാനും അവസരമുണ്ട്.

## KERALA KNOWLEDGE ECONOMY MISSION (KKEM)

Digital Workforce Management System (DWMS) targets to become the 'World Largest Talent Hub'. The three different components of the DWMS platform are Job Seekers, Job Providers and Skilling. The Kerala Knowledge Economy Mission is a digital platform-based strategic program launched by the Government of Kerala to transform the state into a knowledge economy.

Vacancies Compiled	4,49,788
Total Hired	12522
Live Vacancies	36602
Data as on 28 Feb 2023	



# 20 LAKH JOBS BY 2026



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