

INNOVATIVE IDEAS FOR YIP BY OUR STUDENTS



Young Innovators Programme (YIP)

Young Innovators Programme is a specially designed programme under Kerala Development and Innovative Strategic Council (K-DISC). The programme aims to empower future innovators to innovate new products, services, or models to meet emerging requirement, unarticulated needs, or existing market needs of the society more effectively through an innovative challenge. The college encouraged students to participate in this programme and present novel ideas.





Young Innovators Programme (YIP 2020- 2021)

Young Innovators Programme is a specially designed programme under Kerala Development and Innovative Strategic Council (K-DISC). The programme aims to empower future innovators to innovate new products, services, or models to meet emerging requirement, unarticulated needs, or existing market needs of the society more effectively through an innovative challenge. The college encouraged students to participate in this programme and present novel ideas. The first year B.Ed. students of this college had an opportunity to participate in YIP 2021 and ten teams participated. The registration process was done on 6 th January 2021.



St. Thomas College of Teacher Education Pala

In association with

30 th December 2020
Time : 7:00 PM
Platform: Google Meet

K-DISC

Organising

Webinar



www.yip.kerala.gov.in



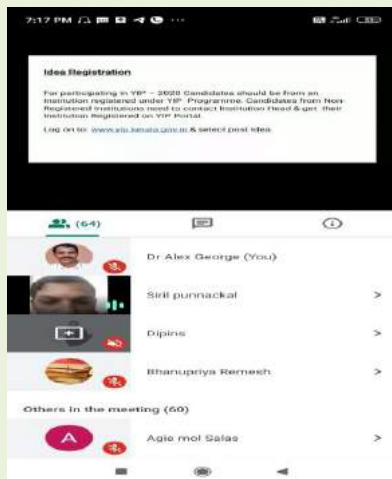
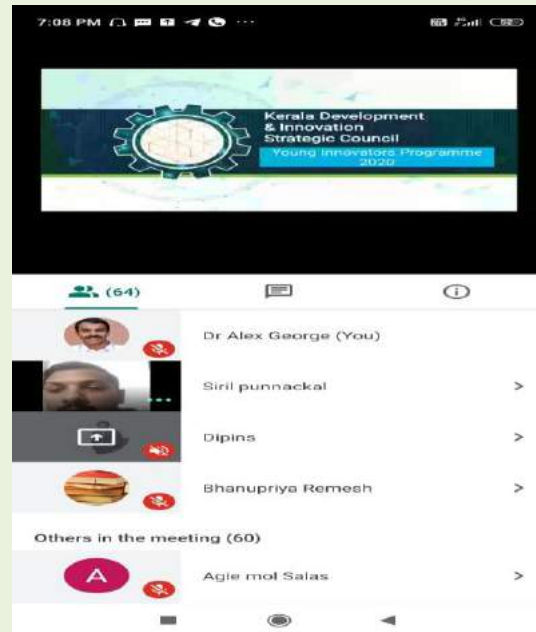
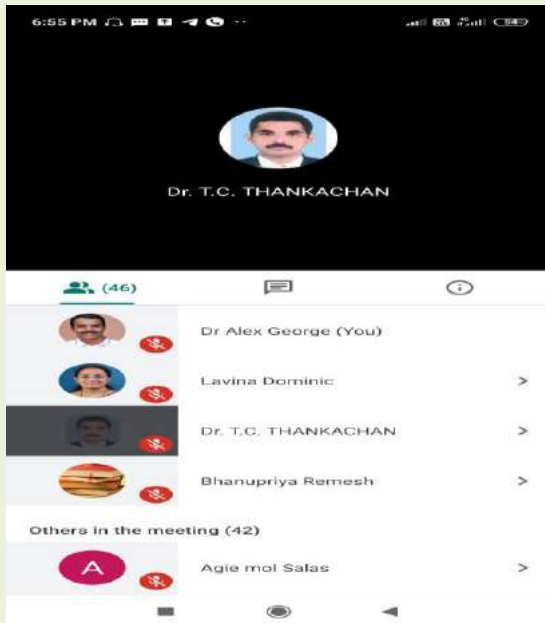
INTRODUCTION TO YOUNG INNOVATORS PROGRAMME (YIP)

Resource Persons

				
SIRIL SEBASTIAN (DIC IDUKKI)	DIPIN V S (DIC KOTTAYAM)	Dr. T.C THANKACHAN (PRINCIPAL)	Dr. LAVINA DOMINIC (IQAC COORDINATOR)	Dr. ALEX GEORGE (YIP NODAL OFFICER)

On December 30th of 2020, St. Thomas College of Teacher Education, Pala in association with K-DISC (Kerala Development and Innovation Strategic Council) conducted a webinar on the topic "Introduction to young innovators programme". Due to the covid pandemic Google meet was used as the online platform to conduct the seminar. The programme was scheduled at 7 pm. Every teacher trainee and also our respectful dignitaries were able to join the meeting by the scheduled time. Dr. Alex George gave a small introduction to the webinar. Ms. Bhanupriya enlightens our minds with God's grace by singing the prayer song. Mr. Siril Sebastian (DIC Idukki) and Mr. Dipin V S (DIC Kottayam) were

the most prominent resource persons. After the session various doubts regarding Innovation and new idea of starting ventures were discussed clearly. By 7: 55 PM the webinar was officially winded up by a vote of thanks by Akhila Manmathan. Total number of participants was 65.



Sl.No	Team members	Innovative Ideas given by our students
1.	James Mathew, Jyothislakshmi KR, Jyotsna Baby, Reshma Raju Idea id -2443	Excessive game addiction is a problem faced by children nowadays as a solution to this problem we are planning and automatic games freezing system to be incorporated in Smartphone over continuous usage of 1 hour in collaboration with major smartphone companies. As per this idea users who are below the age of 18 are not allowed to place at games continuously more than one hour which is detected automatically when they sign in from their accounts. The system will Resume the application after a break of 1 hour since the

		program is inbuilt in the phone the user cannot override its effect and advantage that is offered over third party application.
2.	Anita Mathew Bhanupriya R Anju Mol S, Athira PS Idea id- 2442	Milma kaksha ka app - This app helps the farmers to get there Diary Milk supplies status that rate quantity of milk and the daily rate for their milk from the milma society to their smartphone. This app also include a portal to share the government subsidies and schemes related with dairy farmers which help the farmers to access the schemes easily by introducing this app we can reduce the usage of paper.
3.	Anu Treesa Jose, Akhila Manmadan, Liya Margaret Antony, Rosemary Cheriyam Idea id - 2484	Arranging piggy bank for each child in a class labeled with the target amount and strong if completed before the target time we will over them scratch cards lucky draws et cetera as motivators by the end of a school then needs written by the students are evaluated and are met under the initiative of the school if any basic need mentioned by students are noted in between it will be given due care in face to banks are incorporated into this venture and the piggy bank will turn into an account in bank and the motivators will continue
4.	Divya Stani , Lis Mary Antony, Jaicy Jose, Ashmi Maria John Idea id-2458	Our basic idea is to set up Agro Pharma desk it is an organisation which AIMS at marketing products on maximum profile scale in the open market this forum is opened forced students teenagers and elder people so in short a person can gain best profit for the products that they produce this organisation will help to provide a statistical output of most demanded products in the market which can be sold out easily
5.	Annie Theresa Shajan, Annumol Joji, Anuja babu, Christy Thomas	Develop an AI based drip irrigation system to help farmers to solve the problems of water scarcity.ie drip irrigation controlled by AI. We can use AI to collect data from soil and light sensors to advice on the quantity of water required, to take note of humidity, temperature, climate data, forecast and satellite data. This is particularly useful to inexperienced farmers who might need help to improve productivity while reducing water consumption.
6.	Sneha Jayakumar, Riya Rose Johns, Nevil George Idea id- 2459	Develop an application for educational purpose which will facilitate all the needs and rectify the loopholes of the existing similar applications. The highlight of the application is that while conducting the class the host will be able to verify the presence of the participants in front of the digital screen without using microphone or video sharing. The class can be recorded automatically into the server and that is available at any time only to those who will be permitted by the host. In this application the host will be able to set the timer beforehand so that he or she will be notified that time is up by some changes in the screen without hindering the class. Also this application will contain an option for uploading the educational qualifications and this will be a total online educational platform which provides the notifications from government and non-government job portals automatically to our profile account once we register our academic and professional qualification in tin application.
7.	Irin Sera joseph, Anitta Jose, Densy John, Julian Tom Job Idea id-2470	Reclaiming the forgotten mental space for our posterity.- It is the need of the hour to render due care for all, irrespective of their differences. When we think of children, two broad categories stem up in our minds; normal kids and special children. our idea is to reclaim the mental health of special children by introducing Pet Therapy (AAT)
8.	Harikrishnan V, raina Martin,	Assistant technology is assistive adaptive and rehabilitated devices or people with disabilities or the elderly population. People who

	Cheslin Jose, Vinesha Vijayan Idea id- 2460	have disabilities often have difficulty in performing activities of daily living independently or even with assistance. We consider about a software or app which helps differently abled students. With the help of Artificial Intelligence and other new technology advancement we thought that such an app or software will help them to study especially in this ubiquitous era of online education because we strongly felt that with arrival of online education many students, especially differently able students and special students were conveniently neglected by our education system. Those apps or software should assist them to access the network connectivity automatically allow their entry to Google meet and other platforms on time read the text automatically etc.
9.	Steffy Tom, Treesa Jomy, Ambily Mani, Elsamma Joseph, Ligin Pullenkunnel	Student friendly transportation card - Presently students are facing many difficulties while travelling such as and safe best travel payment delay risk of carrying money lack of available tea of coins. This card help students to travel safer with the tap-to pay contactless students friendly card. This card also store your bus tickets bus pass and pay conveniently for your best travel.
10.	Meera Seby, Agiemol Sales, Navyamol K.R., Sojo John	We propose a quarternate package for improving the mental and Physical health of our students which includes 1) different kinds of extra curricular activities 2) good informal interaction between teachers and students 3) meditation and yoga practices 4) education oriented games and reasoning based game for general knowledge

Official approval and innovative try-outs

District level approval

Out of ten teams participated in YIP 2021, four teams from our college were shortlisted for second level evaluation. The selected ideas and team members are:

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1.	James Mathew, Jyothislakshmi KR, Jyotsna Baby, Reshma Raju Idea id -2443	Excessive game addiction is a problem faced by children nowadays as a solution to this problem we are planning and automatic games freezing system to be incorporated in Smartphone over continuous usage of 1 hour in collaboration with major smartphone companies. As per this idea users who are below the age of 18 are not allowed to place at games continuously more than one hour which is detected automatically when they sign in from their accounts. The system will Resume the application after a break of 1 hour since the program is inbuilt in the phone the user cannot override its effect and advantage that is offered over third party application.
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4.	Divya Stani , Lis Mary Antony, Jaicy Jose, Ashmi Maria John Idea id-2458	Our basic idea is to set up Agro Pharma desk it is an organisation which AIMS at marketing products on maximum profile scale in the open market this forum is opened forced students teenagers and elder people so in short a person can gain best profit for the products that they produce this organisation will help to provide a statistical output of most demanded products in the market which can be sold out easily
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Team 1



Team 2



Team 3



Team 4



Certificate of Second Level Participation of Our Students



CERTIFICATE OF PARTICIPATION



THIS CERTIFICATE IS AWARDED TO

Liya Margarette Antony

Ideator Id: 20YIP24843

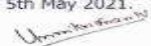
St. Thomas College Of Teacher Education, Pala 686 575

for having participated in the Second Level evaluation of the Young Innovators Program (YIP 2020) conducted by the Kerala Development and Innovation Strategic Council.

Liya Margarette Antony

has also attended the training program on **Introduction to Design Thinking and Pitch Deck Preparation** conducted during 7th April and 5th May 2021.

Date: 2021 June 21


Dr. P.V. Unnikrishnan
Member Secretary



CERTIFICATE OF PARTICIPATION



THIS CERTIFICATE IS AWARDED TO

Akhila Manmathan

Ideator Id: 20YIP24842

St. Thomas College Of Teacher Education, Pala 686 575

for having participated in the Second Level evaluation of the Young Program (YIP 2020) conducted by the Kerala Development and Innovation Strategic Council.

Akhila Manmathan

has also attended the training program on **Introduction to Design and Pitch Deck Preparation** conducted during 7th April and 5th May 2021.


Dr. P.V. Unnikrishnan
Member Secretary

CERTIFICATE OF PARTICIPATION



THIS CERTIFICATE IS AWARDED TO

Rose Mary Cherian

Ideator Id: 20YIP24844

St. Thomas College Of Teacher Education, Pala 686 575

for having participated in the Second Level evaluation of the Young Innovators Program (YIP 2020) conducted by the Kerala Development and Innovation Strategic Council.

Rose Mary Cherian

has also attended the training program on **Introduction to Design Thinking and Pitch Deck Preparation** conducted during 7th April and 5th May 2021.

Date: 2021 June 21


Dr. P.V. Unnikrishnan
Member Secretary



CERTIFICATE

This certificate is awarded to

Anjumol S

Idea_ID : 20YIP24423

who has attended the Immersion Boot Camp held from 26th July 2021 - 08th September 2021 and also the State Level Evaluation of the Young Innovators Programme 2021 conducted by the Kerala Development and Innovation Strategic Council from 29th September 2021 - 16th November 2021.

2021 November 19




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



CERTIFICATE

This certificate is awarded to

Anita Mathew

Idea_ID : 20YIP24421

who has attended the Immersion Boot Camp held from 26th July 2021 - 08th September 2021 and also the State Level Evaluation of the Young Innovators Programme 2021 conducted by the Kerala Development and Innovation Strategic Council from 29th September 2021 - 16th November 2021.

2021 November 19




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



CERTIFICATE

This certificate is awarded to

Bhanupriya R

Idea_ID : 20YIP24422

who has attended the Immersion Boot Camp held from 26th July 2021 - 08th September 2021 and also the State Level Evaluation of the Young Innovators Programme 2021 conducted by the Kerala Development and Innovation Strategic Council from 29th September 2021 - 16th November 2021.

2021 November 19




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



CERTIFICATE

This certificate is awarded to

Athira P S

Idea_ID : 20YIP24424

who has attended the Immersion Boot Camp held from 26th July 2021 - 08th September 2021 and also the State Level Evaluation of the Young Innovators Programme 2021 conducted by the Kerala Development and Innovation Strategic Council from 29th September 2021 - 16th November 2021.

2021 November 19




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



CERTIFICATE

This certificate is awarded to

Athira P S

Idea_ID : 20YIP24424

who has attended the Immersion Boot Camp held from 26th July 2021 - 08th September 2021 and also the State Level Evaluation of the Young Innovators Programme 2021 conducted by the Kerala Development and Innovation Strategic Council from 29th September 2021 - 16th November 2021.

2021 November 19




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

CERTIFICATE OF PARTICIPATION



THIS CERTIFICATE IS AWARDED TO

Jyothylakshmi K R

Ideator Id: 20YIP24433

St. Thomas College Of Teacher Education, Pala 686 575

for having participated in the Second Level evaluation of the Young Innovators Program (YIP 2020) conducted by the Kerala Development and Innovation Strategic Council.

Jyothylakshmi K R

has also attended the training program on **Introduction to Design Thinking and Pitch Deck Preparation** conducted during 7th April and 5th May 2021.

CERTIFICATE OF PARTICIPATION



THIS CERTIFICATE IS AWARDED TO

James Mathew

Ideator Id: 20YIP24431

St. Thomas College Of Teacher Education, Pala 686 575

for having participated in the Second Level evaluation of the Young Innovators Program (YIP 2020) conducted by the Kerala Development and Innovation Strategic Council.

James Mathew

has also attended the training program on **Introduction to Design Thinking and Pitch Deck Preparation** conducted during 7th April and 5th May 2021.

CERTIFICATE OF PARTICIPATION



THIS CERTIFICATE IS AWARDED TO

Lis Mary Antony

Ideator Id: 20YIP24584

St. Thomas College Of Teacher Education, Pala 686 575

for having participated in the Second Level evaluation of the Young Innovators Program (YIP 2020) conducted by the Kerala Development and Innovation Strategic Council.

Lis Mary Antony

has also attended the training program on **Introduction to Design Thinking and Pitch Deck Preparation** conducted during 7th April and 5th May 2021.

Date: 2021 June 21


Dr. P.V. Unnikrishnan
Member Secretary





State Level Approval

The idea of ‘**Milma Karshaka App**’ was selected and shortlisted after the a State level evaluation on 7th January 2022. As part of YIP programme, on May 6,2022 the State level winners Ms. Anita Mathew (Team Leader), Ms. Bhanupriya R., Mrs. Anjumol S.,Ms. Athira P.S. and ,Dr. Alex George (Teacher in-charge, YIP) visited College of Dairy Science and Technology, Kolahalamedu, Vagamon and interacted with Dr. Shyam Suraj, Special officer and State level Mentor of YIP.

Dr. Alex George is also selected as State Level Idea Evaluator and Mentor trainer of YIP 2022.

ST. THOMAS COLLEGE OF TEACHER EDUCATION, PALA

INTERACTIVE DISCUSSION

YIP State Level Ideators With Mentor

Ms. Anita Mathew, Ms. Bhanupriya R., Ms. Athira P.S., Ms. Anjumol S.

Venue : College of Dairy Science and Technology, Kolahalamedu, Idukki

6 /05 /2022
11.30 a.m. – 3.00 p.m.

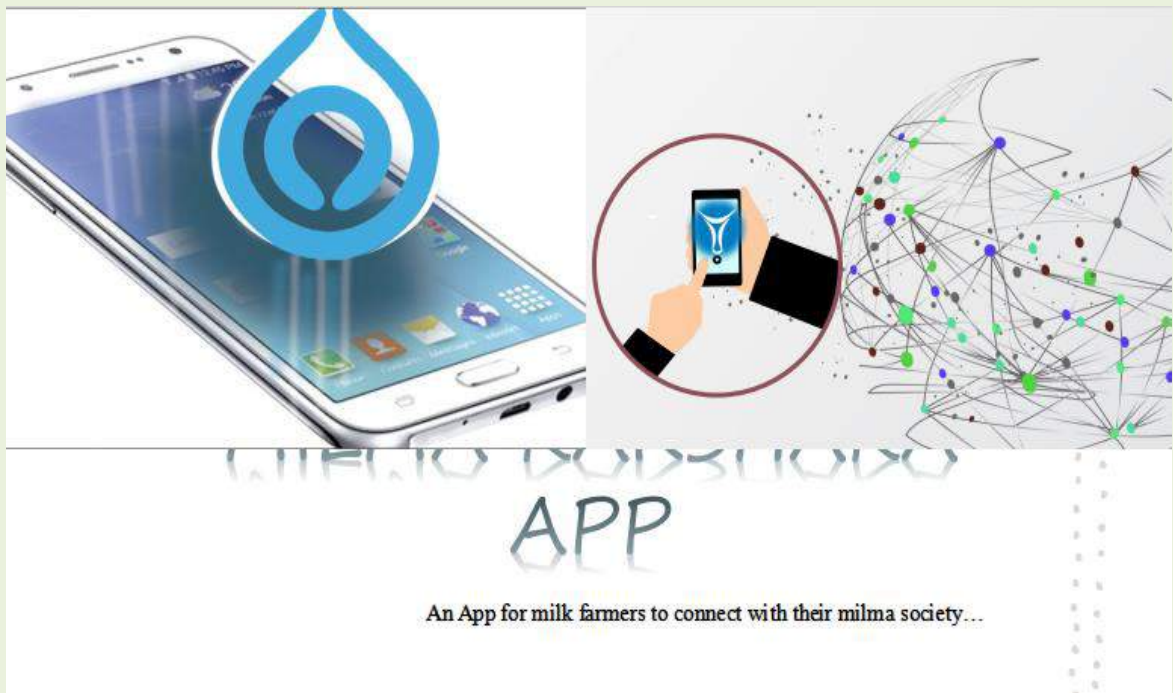
OBJECTIVES :

- To workout the action plan of the project.
- To get exposure in the Dairy Technology.
- To create an annual plan for the YIP project

YOUNG INNOVATORS PROGRAMME 2020
ORGANIZED BY **K-DISC**



Details of the idea of 'Milma Karshaka App'



Our Team

BHANUPRIYA R

1 Year B.Ed Student
St. Thomas College of Teacher
Education ,Pala.



OUR MENTOR
Dr. Alex George
Assistant Professor
in Education



ANITA MATHEW

1 Year B.Ed Student
St. Thomas College of Teacher
Education ,Pala.



ANJUMOLS

1 Year B.Ed Student
St. Thomas College of Teacher
Education ,Pala.



ATHIRA P S

1 Year B.Ed Student
St. Thomas College of Teacher
Education ,Pala.



WHY THIS IDEA ?

To solve the problems faced by the dairy farmers during the Covid pandemic



To know the subsidies and schemes in the finger tip of farmers



To keep the daily milk supply records safely



A platform for the Milma society to maintain a link with the farmers



Date	CRB	LTR	PAT	AGL	...
11/01/18 E	48.0 B	5.3	2.04	-4	
12/01/18 E	48.0 B	5.2	0.00	-4	
13/01/18 E	48.0 B	3.6	0.00	-21	
14/01/18 E	48.0 B	4.0	0.00	-3	
15/01/18 E	48.0 B	4.3	0.00	-16	
16/01/18 E	50.0 B	6.4	0.00	-6	
18/01/18 E	48.5 B	5.5	0.04	-2	
19/01/18 E	48.0 B	6.0	0.00	-3	
15/01/18 E	54.0 B	5.2	0.00	-10	
16/01/18 E	48.0 B	5.7	0.00	-6	
16/01/18 E	50.0 B	4.8	0.00	-10	
17/01/18 E	48.0 B	6.1	0.00	-2	
17/01/18 E	50.0 B	4.3	0.04	-17	
18/01/18 E	50.0 B	6.1	0.00	-3	
18/01/18 E	48.0 B	4.5	0.00	-14	
19/01/18 E	50.0 B	6.0	0.00	-3	
19/01/18 E	47.5 B	4.2	0.00	-16	
20/01/18 E	50.0 B	7.1	4.50	0	
20/01/18 E	50.0 B	4.1	0.00	-13	
BUFF	50.0 B	4.50	-174		

HOW IT WORKS ?

HOW IT IS UNIQUE ?

This platform help the farmers to know the Govt. Subsidies and schemes

Milma society can provide informations and reminders to the farmers.

It is the first app that is providing new options to connect milma centers and the Farmers



This app is for the dairy farmers to get their daily reading records from the milma society



As first step logo for the app is created.

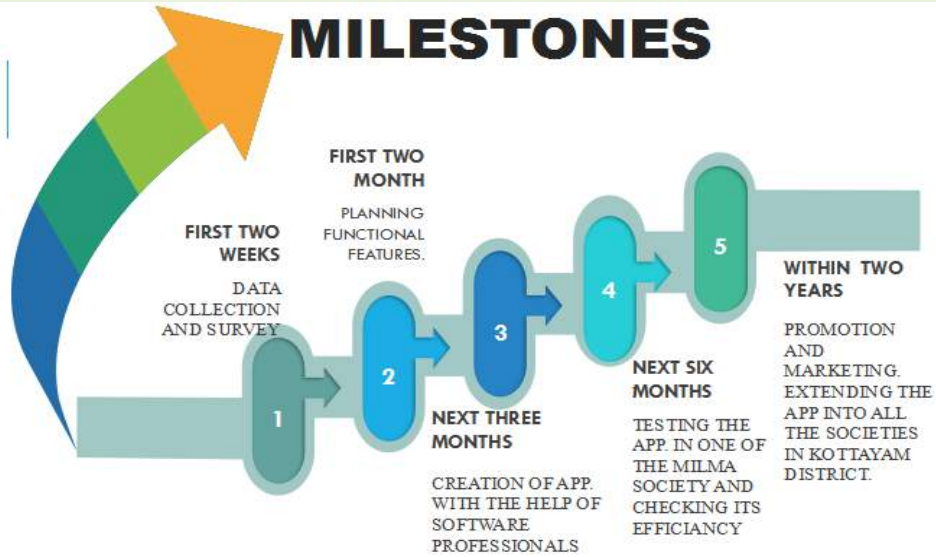


ID ,name of the farmer and Society number are required to Login the app.

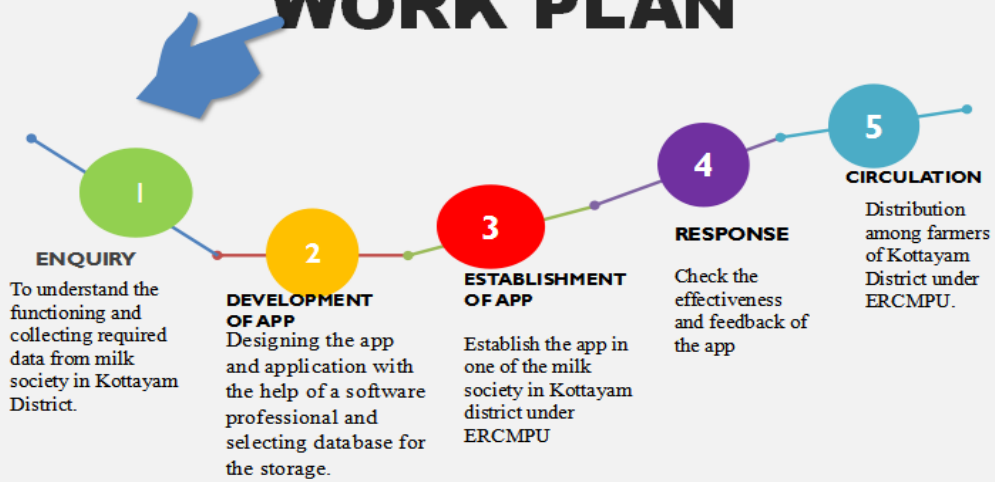


Each society has its own unique society number

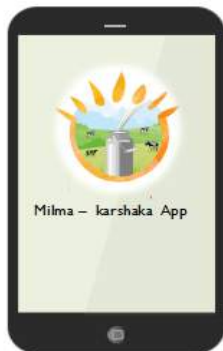
MILESTONES



WORK PLAN



BENEFITS



 To know **fat content**, **quality of milk**, **rate** on daily wise

 Knowledge about **Government subsidies and schemes** for farmers

 Reduce **paper usage**

 Easy to **handle** and access

 Save **time** and effort

 View the history of milk supply

FUND BREAKUP

	APPROXIMATE AMOUNT
STUDY AND SURVEY	1 LAKH
APPLICATION DEVELOPMENT AND TECHNICAL SUPPORT	8 LAKH
PLAY STORE AND ADVERTISEMENT	50000
MISCELLANEOUS	50000
TOTAL AMOUNT	10 LAKH
APPROXIMATE FUND REQUIRED	10 LAKH

Certificates of the Team members





Certificate of Appreciation

This is to certify that

Athira P S

Institution ID : 12538

St. Thomas College Of Teacher Education, Pala 686 575

is a winner of the idea titled

"MILMA KARSHAKA APP" (Idea ID: 2442)

from her/his institution in the micro theme

Marketing

under the main theme

Agriculture & Allied Sectors

at the State Level Evaluation of the Young Innovators Programme (YIP) 2020.



2021 December 09

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



Certificate of Appreciation

This is to certify that

Anjumol S

Institution ID : 12538

St. Thomas College Of Teacher Education, Pala 686 575

is a winner of the idea titled

"MILMA KARSHAKA APP" (Idea ID: 2442)

from her/his institution in the micro theme

Marketing

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2021 December 09

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

YIP ideas of the year 2021-22



Idea id	Team members	Innovative Ideas given by our students
4623	Minu Maria Thomas Aiswarya KV Seenu Thomas Sneha Jos Rinku Maria Joy	An air-tight plastic incinerator made of stainless steel. It has an inlet to place plastic. Ignite the waste using a fire source. Close the champer's lid. Use an air pump to enhance burning. The most commonly used plastics polyethene, PET etc are made up of only carbon and hydrogen, it undergoes incomplete combustion to liberate carbondioxide and water. The liberated carbondioxide is absorbed by sodalime. The sodalime is placed in the space inside the lid such that, the absorbent is exposed to the poisonous gases and carbondioxide liberated. It changes its colour from white to pink on reaching carbondioxide absorption capacity. Absorbent is replacable.
4727	Josna Jose Sanchu Jose Jilu Tresa George Elizabeth T.S Tom Joseph	The tourists often face a problem of having no facility to charge their mobile phones or lamps during night time. Here we introduce a technique for charging their phones along with cooking in night. We make a hearth for cooking, a metallic tray whose bottom is coated with, thermoelectric plates which helps to generate electricity using see beck effect, use electric tape to protect from short circuits and it is connected to a voltage regulator placed above metallic plates coated with aluminum foil, then voltage regulator is connected to a cable which help them to charge mobile phones when we start cooking. A solar cell is also connected to charge them in day time.

4822	Archana Madhu Dinta Baby Gopika Anil Angel Joseph Sreelakshmi	To avoid the filling application forms in banking systems. To introduce a fingerprint machines to solve this problem. Just analysing our finger print to get the all details for bank to fill the application forms like withdrawals, deposit forms etc..
4860	Divyamol MS HariPriya J Irene Ann George Minna Mary Tom Seene Thomas	Develop a daily assessment learning app which promotes students to upload their assignments based on the topics taught to them each day. The presentation of their assignment is totally student's choice. Also, a directory of subject-resource persons from all districts of Kerala are uploaded which will help students locate their nearby mentors for clearing their doubts.
5074	Pearly S Thomas Cyriac Thomas Aleena Jose Alfred George Archana TS	We propose to integrate all the ambulances in both public and private sector and develop an ambulance service app that allow users to get service on finger tips without delay.This app consolidates the entire data of ambulances in our state,services in a particular area their customized facilities,the hospitals to which they are linked etc.The integration of ambulances and it's management through the medium of a mobile app will be most beneficial to common people.
5108	Athira Kp Adithya Shaji Mithra James Annu Sunny Vandana VV	Establishment of ladies friendly toilets in public transport mainly in bus. A small sized toilet and a wash area like in that of aero plane and train at the end of the bus. For implementing this number of seats must be reduced to maintain the size of bus and if it is sleeper the advisable height can be increased little more. There should be a proper waste disposal system also. Automatic Bus Toilet Cabin. Ideal for large buses. Fully self-contained with mirror, integrated waste bin, water tank, waste tank, toilet seat, sink, and light. The latest version of the technology can be applied here.
5120	Neethu KM Irine Theresa Dius Liz Teenu Mathews Anu Ann James Sisirkhosh mohan	Our major idea is the proper management of food waste especially the food waste from hotels. A majority of people in our society is focused on agriculture and animal husbandry for their livelihood and they are the main beneficiaries of our idea, as the food waste from hotels can be supplied to such farmers who run pig farming and such waste can be used for making compost mix and bio gas. So we thought of developing an app through which the farmers can make contacts with various hotels by checking the availability of slots for getting these food waste.
5132	Arya Ashok Hanna Elizabeth Joy Fr. Jijo Thomas Jisha Shaji Suman Sunny	If self-scanning system is introduced, it will enable the shoppers to scan the products to their basket which let them pay at final stage in an easy and quick way. They can access the app, start scanning and keep their products in trolley which enable them to add the products they purchased to virtual cart. At the end, customer can make in-app payment via their valet and walk out of the store. It helps to avoid the long billing queues and waiting times where customers can easily come and finish their shopping as they wish.
5386	Rani baby Gouri Gayathri G Krishnand H Ninumol Joseph Sulumol Sunny	Aim is to improve entrepreneurial skills of farmers and help them keep their identity. We are planning to implement a platform for farmers, both online and offline which provides opportunity to sell products through various zonal connectivity.The products include all kind of fresh and unprocessed food crops, spices, diary products and beverages. We also deal with the renting of machinery and

		direct sale of fertilizers. Farmer can access 3 zonal levels, Level 1 connects farmers and beneficiaries in local area which is of prime importance, level 2 connects regular customers and Level 3 focuses large scale marketing.
5507	Shilpa Elizabeth Joychan Alina Ann Roy Sr.soniya Dominic Minu Mathews Ans Thomas	We are planning to introduce an electronic book where the words are uttered electronically and it also provides a provision to hear , see and write the letters and words within the book.

State Level Selection for Innovative Ideas (YIP 4.0)

Out of ten teams registered at district level competition, two teams were selected for the state level competition and each team got 25000/- as prize.

IQAC - QUALITY INITIATIVE PROGRAMME 2023
YOUNG INNOVATORS PROGRAM
K-DISC

YOUNG INNOVATORS PROGRAM 2021
ORGANIZED BY
KERALA DEVELOPMENT AND INNOVATION STRATEGY COUNCIL
IDEATORS SELECTED FOR STATE LEVEL COMPETITION

Ms. Josna Jose
Team Leader

Mr. Sancho Jose
Secretary

Sr. Elizabeth T.S
Team member

Ms. Jilu Tresa George
Team Member

Mr. Tom Joseph
Team Member

Dr. Sr. Beemamma Mathew
Principal

Mr. Dipu V.S
District Program Evaluator - K-DISC

Dr. Alex George
Teacher in charge -YIP

₹25,000 + CERTIFICATE
CONGRATULATIONS

ST. THOMAS COLLEGE OF TEACHER EDUCATION, PALA

YOUNG INNOVATORS PROGRAM 2021
 ORGANIZED BY
KERALA DEVELOPMENT AND INNOVATION STRATEGY COUNCIL
 IDEATORS SELECTED FOR STATE LEVEL COMPETITION



Ms. Shilpa Elizabeth Joychen
Team Leader



Ms. Alina Ann Roy
Secretary



Sr. Soniya Dominic
Team member



Ms. Minu Mathews
Team Member



Ms. Anns Thomas
Team Member



Dr. Sr. Beemantna Mathew
Principal



Mr. Dipin V.S
District Program Executive K-DISC



Dr. Alex George
Teacher in charge -YIP

₹25,000 + CERTIFICATE
 CONGRATULATIONS

ST. THOMAS COLLEGE OF TEACHER EDUCATION, PALA

STATE-LEVEL INNOVATIVE MEET CASH AWARD





CERTIFICATE OF APPRECIATION

This certificate is awarded to **Elizabeth T S**

St. Thomas College of Teacher Education, Pala 686 575

Idea ID: **4727** as a mark of appreciation under the theme

Business model innovation and Future Technologies

which has been selected as one of the district level winners of Young Innovators Programme 4.0.

Unnikrishnan PV

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

Date: **20 July 2023**



CERTIFICATE OF APPRECIATION

This certificate is awarded to **Minu Mathews**

St. Thomas College of Teacher Education, Pala 686 575

Idea ID: **5507** as a mark of appreciation under the theme

Problems of the Children

which has been selected as one of the district level winners of Young Innovators Programme 4.0.



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

Date: **20 July 2023**



CERTIFICATE OF APPRECIATION

This certificate is awarded to **JOSNA JOSE**

St. Thomas College of Teacher Education, Pala 686 575

Idea ID: **4727** as a mark of appreciation under the theme

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

Date: **20 July 2023**



CERTIFICATE OF APPRECIATION

This certificate is awarded to **Anns Thomas**

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Idea ID: **5507** as a mark of appreciation under the theme

Problems of the Children

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

Date: **20 July 2023**



CERTIFICATE OF APPRECIATION

This certificate is awarded to **Shilpa Elizabeth Joychen**

St. Thomas College of Teacher Education, Pala 686 575

Idea ID: **5507** as a mark of appreciation under the theme

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

Date: **20 July 2023**



CERTIFICATE OF APPRECIATION

This certificate is awarded to **TOM JOSEPH**

St. Thomas College of Teacher Education, Pala 686 575

Idea ID: **4727** as a mark of appreciation under the theme

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Unnikrishnan PV

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

Date: **20 July 2023**



CERTIFICATE OF APPRECIATION

This certificate is awarded to **Soniya Dominic**

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Idea ID: **5507** as a mark of appreciation under the theme

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Unnikrishnan PV

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

Date: **20 July 2023**



CERTIFICATE OF APPRECIATION

This certificate is awarded to **JILU TRESA GEORGE**

St. Thomas College of Teacher Education, Pala 686 575

Idea ID: 4727 as a mark of appreciation under the theme

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

Date: 20 July 2023



CERTIFICATE OF APPRECIATION

This certificate is awarded to **Alina Ann Roy**

St. Thomas College of Teacher Education, Pala 686 575

Idea ID: 5507 as a mark of appreciation under the theme

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

Date: 20 July 2023

Young Innovators Programme (YIP 2023) -- YIP 5.0

Young Innovators Programme is a specially designed programme under Kerala Development and Innovative Strategic Council (K-DISC). The programme aims to empower future innovators to innovate new products, services, or models to meet emerging requirement, unarticulated needs, or existing market needs of the society more effectively through an innovative challenge. The college encouraged students to participate in this programme and present novel ideas. The first year B.Ed. students of this college had an opportunity to participate in YIP 5.0 and ten teams registered in the district level.

Our 5.0 Team Members

YOUNG INNOVATORS PROGRAMME 5.0.
Organized by
KERALA DEVELOPMENT AND INNOVATION STRATEGY COUNCIL
TEAM BRAINYBUDDIES

MERRIN ANN PHILIP
Commerce Education (L)

LINTA JOSEPH
Mathematics Education

ANNU PAULIN JOSEPH
Social Science Education

MERIYA VERONICA SAM
Commerce Education (L)

ANAND K. S.
Natural Science Education

ALPHONSA MATHEW
Mathematics Education

JEFFIN JOSE JAMES
Physical Science Education

AJMEYA SULIMAN
Natural Science Education

ANNU ABRAHAM
Social Science Education

RESHMI K. R.
English Education

Dr. (Sr.) Beenamma Mathew
Principal

Mr. Dipin V. S.
District Program Coordinator, K-DISC

Dr. Alex George
Teacher in charge, YIP

Dr. (Sr.) Beenamma Mathew
Principal

Mr. Dipin V. S.
District Program Coordinator, K-DISC

Dr. Alex George
Teacher in charge, YIP

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INNOVATION STRATEGY COUNCIL

TEAM OASISSTHOMAS



ALEENA ELIZABETH ALEX
Physical Science Education (L)



ADHILA SUNEER
Social Science Education



NAYANA BABU
English Education



EMMA MARIA JOSEPH
English Education



SNEHA JOSE
English Education



Dr. (Sr.) Beenamma Mathew
Principal



Mr. Dipin V. S.
District Program
Coordinator, K-DISC



Dr. Alex George
Teacher in charge, YIP



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English Education



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Dr. Alex George
Teacher in charge, YIP



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CATHERINE JOSE
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ANCYMOL JOY
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DEVIKA R
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NITHIN GT
Natural Science Education



Dr. (Sr.) Beenamma Mathew
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FATHIMA SALIM
Physical Science Education



LIJO JOSE
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AMRUTHA P ANIL
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PEARL ANNIE SEN
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TESSY KURIAN
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DIVYA THANKACHAN
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Dr. (Sr.) Beenamma Mathew
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Teacher in charge, YIP



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ALBI MOHAN V
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NIBIN BABU
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AMALU K ALIAS
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LINTA ELDOS
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Dr. (Sr.) Beenamma Mathew
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Teacher in charge, YIP



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TEAM MOUNTAIN MOVERS



SETHULAKSHMI T. K
Physical Science Education (L)



LIDWIN MARIA GEORGE
Natural Science Education



LIYA MATHEW
Social Science Education



SREESHMA DAS K
Commerce Education



ARSHA M.S
Mathematics Education



ANSE MARIA TOMY
Physical Science Education



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Dr. Alex George
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ANITA THOMAS
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GINSE JOSE
Social Science Education



SRADHA MERIYA BABU
English Education



ALAN MARIA BENNY
Mathematics Education



Dr. (Sr.) Beenamma Mathew
Principal



Mr. Dipin V. S.
District Program
Coordinator, K-DISC



Dr. Alex George
Teacher in charge, YIP



ST. THOMAS COLLEGE OF TEACHER
EDUCATION, PALA

Ideas Submitted by Our Students Teams

Idea id	Team members	Innovative Ideas given by our students
23222	Meriya Veronica Sam Anand K S Annu Abhraham Alphonsa Mathew Reshmi K R	<p>YoCoon Protective Gear: Our product is a chargeable protective gear (looks like a belt around the body) that inflates during an accident. The protective gear also includes a camera connected to cloud storage-memory card, vital sensor (heartrate, respiratory rate, body temperature), connectivity (hospitals, loved ones), location tracking with trigger based system that activates when a disturbance in vital detector or collision sensor.</p> <p>FEATURES</p> <p>YoCoon App - For registration Message & Calling Option - Hospitals, Loved Ones can reach to them ASAP Location Tracker Camera (Cloud storage, memory card) Vitals- Heart rate, Respiratory rate, Body temperature Waterproof material</p>
23142	Athira Mohan Fatima Salim Ajina Joseph Riya Treesa Royce Lijo Jose	<p>This idea is to develop a software for the market field. when we need to buy several items from the shop, we can use the software and select the required items with the token number. So that the item lists are received by the shopkeeper through software, and he packs the items required for us within the short time. We can collect our items from the shop using this token numbers. This saves our time and it is also easy for the retailer.</p>
22758	Merrin Ann Philip Sr. Linta Joseph Jeffin Jose James Ajmeya Suliman Annu Paulin Joseph	<p>In Kerala, there is only 'step' facilities in both public & private buses. So the elderly people find it difficult to onboard these buses. Here arise the need for a 'slope & hand rail' facility in the bus along with the steps similar to those in hospitals, schools, colleges, religious places etc. So that the conveyance will be more easier & cheaper for the elderly people.</p>
22714	Sandeep Kumar V Amrutha P Anil Sr. Tessy Kurian Divya Thankachan Pearl Annie Sen	<p>AdaptiveVision: intelligent headlights for safer night-time driving experience.</p> <p>Our idea, AdaptiveVision, is an innovative solution to the problem of failure to dim headlights at night. AdaptiveVision utilizes advanced sensor and adaptive technology to automatically adjust headlight brightness based on real-time conditions. This intelligent system enhances visibility for the driver while minimizing glare for other road users, ensuring safer nighttime driving.</p>
22832	Denna Jose Nithin CT Catherine Jose Ancymol Joy Devika R	<p>The idea we submit is about safety alarms in neighbourhoods. Setting up an alarm with sounds that connects directly to the nearby police station with the attached camera. The camera helps the authorities to reach the person in need directly. The alarm will only stop beeping when the authorities have noticed. This will also be helpful for disabled people who find difficulty in contacting others in need of help. By the sound of alarm local people can also reach the place before authorities which will be very beneficial for the one in need.</p>
22605	Aleena Elizabeth Alex Adhila	<p>An app to sell all products produced by farmers across Kerala the customer gets an opportunity to select the products based on lock</p>

	Emma Maria Joseph Nayana Babu Sneha Jose	locality and their specification.
23841	Vinduja V Sivani sai Elizabeth Cyriac	Manufacturing plates and bottles for events using coconut shell and leftover tender coconut materials. By utilizing this natural resources we can provide functions with moral sustainable and environmentally friendly alternatives
23579	Arsha MS Sethulakshmi TK Lidwin Maria George	Major part of women and girls are facing fear on the usage of menstrual Cup even though it is comfortable so our idea is to make another measure other than menstrual couple Cup with which can be used without fear also children may be allergic to sanitary pads and at the same time they are afraid of using menstrual cup in that case this idea could make up this problem
23599	Alan Maria Benny Anitta Thomas Ginse jose Sradha Maria Babu	The elderly people need special attention and psychological support with the help of college students teams can be formed to attend their needs they can be given training and their service can be counted as their experience in the field it can be made as their part time job.
25194	Liya Mathew Sreeshma Das Arsha MS Ans Maria Tomy Lidwin Maria George	Diapers are commonly used by elderly and children never days Technical Advancement had has led people to adopt disposable diapers even though it is user friendly and hygienic it produce the secured amount of environment based it might take years to decompose the majority of people depend on bearing as a method of disposal. So the development of a device that helps in the proper disposal helps in many ways.
22840	Sona Alex Linta Eldos Nibin Babu Alby Amalu k alias	As we know most of the people are using private or KSRTC bus for their transportation but many issues like robbery sexual harassment etc are increasing in such a situation many of them become panic in such situation if there is any electronics systems like basor which anyone can access will be helpful and this must be directed to nearby station and this they can access by location and they can paste the spot easily

YOUNG INNOVATORS PROGRAMME 6.0 **2023-2025**

PRILIMINARY DISCUSSION

Dr. Alex George, the Nodal Officer of the Young Innovators Programme (YIP) at St. Thomas College of Teacher Education, Pala, organized a preliminary discussion session on December 21, 2023 from 10:30 am to 12:30 pm for the B.Ed 2023-25 batch students. He divided the students into 10 groups, each comprising 4 or 5 members. And also appointed Miss Sissy Babu as the student coordinator. Each group choose a suitable name and selected a leader to represent them. Dr. Alex George provided a brief overview of the YIP and its objectives, emphasizing the importance of innovation and creativity in education. During the session, each group discussed their innovative ideas, covering various fields.. The session aimed to introduce the students to the YIP initiative and provide them with an opportunity to discuss their innovative ideas. Each group also prepared a brochure for their group



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Kottayam, Kerala

YOUNG INNOVATORS PROGRAMME 6.0



PRELIMINARY DISCUSSION

21 December, 2023



10:30 am - 12:30 pm



Under the leadership of,

Dr. Alex George (Mentor & Nodal officer)

Miss. Sissy Babu (Student Coordinator)

ORIENTATION PROGRAMME FOR YIP 6.0



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**YOUNG INNOVATORS
PROGRAMME 6.0**



**ORIENTATION
PROGRAMME**

DATE :

23 DECEMBER 2023

TIME :

8:00 P. M. – 9:00 P. M.



Resource Person :

Mr. Jinto Sebastian

(Senior Program Executive
K-DISC, Kottayam)



Google Meet

PRINCIPAL

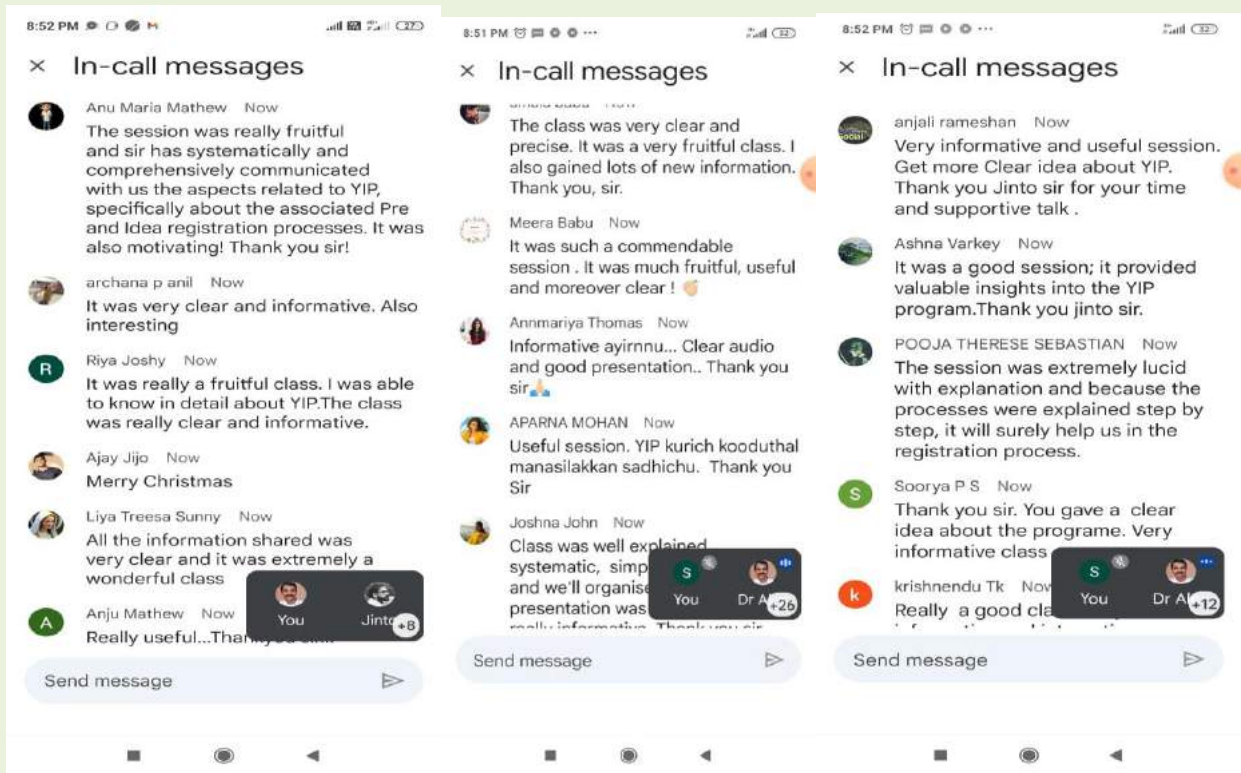
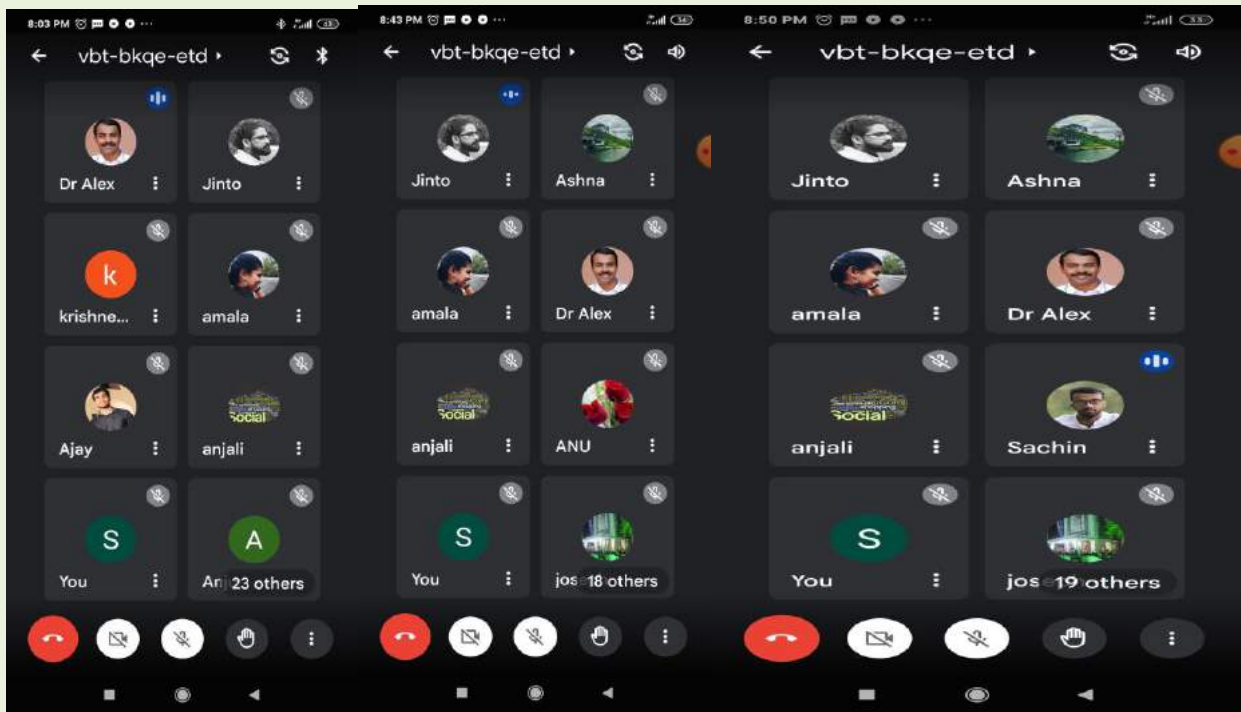
Dr. Sr. Beenamma Mathew

MENTOR & NODAL OFFICER

Dr. Alex George

STUDENT COORDINATOR

Ms. Sissy Babu



On December 23, 2023, an orientation program for the B. Ed 2023-24 batch students was conducted for the Young Innovators Programme (YIP). The one-hour program took place via Google Meet from 8 pm to 9 pm. Ms. Krishnendhu T K began the session with a prayer song, followed by a welcome from student coordinator Ms. Sissy Babu. Dr. Alex George, the mentor and nodal officer, delivered an introductory message. Mr. Jinto Sebastian, Senior Program Executive at K-DISC, Kottayam, conducted the class, providing valuable information about YIP and its registration process. The session proved to be highly informative and useful, offering students a clear understanding of YIP. Following the session, students shared their evaluations through the chat box. Mr. Sachin C Mattathil delivered the vote of thanks, and the program concluded promptly at 9 pm.

Sl. No.	Brochure	Idea Id	Idea Summary
1		33293	<p>The lack of sign language education in schools creates barriers for deaf and hard-of-hearing students due to insufficient awareness, lack of qualified instructors, and inadequate support for assistive technologies. To tackle this issue, schools need to prioritize sign language in their curriculum, provide proper training for educators, and governments should implement policies supporting inclusive education. Recognizing the significance of sign language promotes equality and equips all students for academic and social success.</p>
2		33350	<p>Parental Tax: This idea aims at collecting tax from those children in foreign lands, who have not made arrangements or provisions for taking care of their aged parents in India/ Kerala. This tax is to be transferred to those old age homes according to the priority level of necessity.</p>

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UIP **K-DISC**

YOUNG INNOVATORS PROGRAMME 6.0
 Organized by Kerala Development and Innovation Strategic Council
 2023-24

GROUP: FutureForge Innovators

Sherni Paul
 Commerce Education

Archana P. Anil
 Mathematics Education

Ajay Jiyo
 Physical Science Education
 (LEADER)

Kavya N Nambuthiri
 Social Science Education

Riya Joshy
 Natural Science Education

Dr. Sr. Beenamma Mathew
 (Principal)

Dr. Alex George
 (Mentor & Nodal Officer)

3

31729

A community-based plastic waste upcycling project where young participants collect plastic waste from their neighborhoods and transform it into colorful, durable eco-bricks for creating benches or play structures in local parks.

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UIP **K-DISC**

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 Organized by Kerala Development and Innovation Strategic Council
 2023-24

Group : INNOVATORS HUB

Lijo Augustine
 English Education
 (LEADER)

Anju Mathew
 Physical Science Education

Archana K.
 Social Science Education

Krishnendu T.K.
 Commerce Education

Elsit Baby
 Mathematics Education

Dr. Alex George
 Mentor & Nodal Officer

Dr. Sr. Beenamma Mathew
 Principal

4

33346

The idea is a Smart Kitchen Sensor that detects gas leaks, providing immediate alert for safety, while also monitoring gas levels to notify users when cylinder approaches low or empty, ensuring continuous awareness and enhanced safety.

33415

A digital ID card system for students at every part of the school. This system would track attendance and activities, allowing parents to stay informed about their child's whereabouts and activities through a mobile app.



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YIP YOUNG INNOVATORS PROGRAMME 6.0. 

Organized by Kerala Development and Innovation Strategic Council
 2023-24

Group : THE THINK TANK



SACHIN C MATTATHIL
 Mathematics Education
 (LEADER)



ANNMARIYA THOMAS
 Commerce Education



DONA FRANKSON
 Natural Science Education



TNU MARIA ZACHARIAS
 Physical Science Education



Dr. Sr. Beenamma Mathew
 (Principal)



Dr. Alex George
 (Mentor & Nodal Officer)

5

33348

Portable iron box: A Li iron battery is installed as a power source in iron box and it can be charged using solar power. It also have an automatic shut off system and insulated cover to prevent burning. It is helpful to hostels and travelers.



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YOUNG INNOVATORS PROGRAMME 6.0 

Organized by Kerala Development and Innovation Strategic Council
 2023-24

GROUP: VENTURE FORGE



Joshna John
 Natural Science Education



Anu Maria Mathew
 English Education
 (LEADER)



Sissy Babu
 Commerce Education



Riya James
 Physical Science Education



Soumya John
 English Education



Dr. Sr. Beenamma Mathew
 (Principal)



Dr. Alex George
 (Mentor & Nodal Officer)

6

33059

Flood is becoming one of the common issues in Kerala due to social change. Majority of the people, especially school children are the victims of it due to several reasons. There have been many instances in which without the lack of proper facilities and preventive measures, many children lost their lives. If they are provided with school bags, which can float on water, it can act as a life jacket, which prevent them from drowning. These bags can be made from water hyacinth which is causing a serious threat to our environment. Thus, the idea has twofold motives which will prove beneficial to human society and to our Nature.

7



32316

The idea is to digitalize the Student Concession Card and make it a Smart Student Card. This project mainly focuses on the students who depend private buses for transportation. Smart Student Card contains the details which clarifies the eligibility of the student to avail concession in bus. It has the facility similar to wheels on card which helps the student to make pre-payment of a sum of money. On each usage the concerned concession amount gets deducted from the main balance while swiping in the ticket machine by the conductor. Students need not carry coins. This process makes the card more authentic and avoid manipulation.

8



33294

Radiation from mobile phone gradually produce health hazards/ nervous system damage to people, who use it long time or keep it nearby. This problem can be eliminated to a certain extent by using biocover which absorbs mobile radiation. If we invent a mobile cover made of biomaterials and that have radiation absorbing capacity, it reduces problems of both radiation related health hazards and non degradable solid waste pollution. Development of a mobile cover, which made up of radiation absorbing biological materials like dung/ onion, etc.. in a solidified and non disintegrating manner will be helpful to reduce radiation related health hazards.

33129

To enhance the experience for women seeking consultations with a gynecologist, we propose the implementation of a system

that provides real-time updates to those with scheduled appointments. This system aims to offer timely information to patients, including details such as the current token number being attended, the availability of the doctor for consultation, and any potential delays caused by emergencies. By incorporating these updates into a mobile application, patients can conveniently stay informed about their appointments and streamline their experience at the hospital, reducing wait times and ensuring efficient communication.



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YOUNG INNOVATORS PROGRAMME 6.0.
2023-2024
 Organized by Kerala Development and Innovation Strategic Council
Group : VISION VAULT

ANJALI RAMESHAN
Commerce Education

JOSNA JOSEPH
Physical Science Education

ANNU DOMINIC
Social Science Education
[LEADER]

BRIDGET SANTI
English Education

SOORYA P.S.
Natural Science Education

DR. SR. BEENAMMA MATHEW
Principal

DR. ALEX GEORGE
Mentor & Nodal Officer

33256

Idea, production and marketing are three important stages that a finished product has to pass through. Integrating these three factors in a digital platform will generate huge opportunities and earnings for young innovators without curtailing the benefits of other parties as they are also involved in the procedure. Students get an opportunity to market their brilliant ideas and products they have presented in the State level school fairs.

33463

The idea is to create an app, which can be used by the person who has met with an accident or anyone else in that scene, which will directly inform the nearby hospital about that accident and the hospital will get the exact location through the app with the help of Google map, so that they can come to the rescue of the person as soon as possible and provide medical support at the earliest. Since it is an app it can be used in all areas; rural and urban.

9

10

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900 YOUNG INNOVATORS PROGRAMME 6.0.

K-DISC Organized by Kerala Development and Innovation Strategic Council
2023-24
FLARE MINDS

Ansu Elizabeth Thankachan
Physical Science Education

Liya Treesa Sunny
Mathematics Education

Ashna Varkey
Commerce Education
(LEADER)

Nihira Joseph
Natural Science Education

Pooja Therese Sebastian
English Education

Dr. Alex George
(Mentor & Nodal Officer)

Dr. Sr. Beenamma Mathew
(Principal)

33098

The idea is to set up traffic signals at all zebra crossings with sound installation. The announcements would be done for red lights and green lights so that the pedestrians and drivers could be alerted to easily cross without any difficulties. This idea mainly focuses on the people visually impaired, those with colour blindness, the elderly, and those with cataracts who all need assistance for crossing the streets. The sound would be recorded, and it could be installed into the traffic signals to make the announcements at regular intervals. The announcement should mainly contain STOP for the vehicles to stop at the red sign. A switch can also be attached to the signal for the visually challenged to press and initiate a STOP by the next 15 seconds.

33651

The idea is to develop an application or a website which includes information about all the private buses in all the districts of Kerala. It could have data about the availability of the buses for the day, their timings, their routes, stops, if there are any replacements. The additional advantage would be the installation of a GPS that could help the users track the movement of the bus in its routes. The bus routes can be integrated into Google Maps. Also, the data would be updated scrupulously without any delay. The app or website will have the option of Malayalam too.