

**AQAR 2023 - 2024**



**SANTHIGIRI COLLEGE  
OF COMPUTER SCIENCES**  
Affiliated to M.G. University, Approved by AICTE and Accredited by NAAC



### **CRITERION 3**

3.2.1: Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge



*J. J. Thomas*  
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2018 and 2019C University and Approval by AICTE

# SIR C

SANTHIGIRI INTERDISCIPLINARY  
RESEARCH CENTER

**MOTTO : SYNERGY INNOVATE EXCELLENCE**



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## SANTHIGIRI INTERDISCIPLINARY RESEARCH CENTER

### Vision

- To be a world renowned institute of novel excellence providing a conducive environment for education with a strong emphasis on innovation, quality research and strategic partnership blended with values and commitment to the society.

### Mission

- To foster, promote and sustain scientific research in all aspects – pure, applied and educational.
- To ensure adequate supply of research scholars with higher quality.
- To recognize the work of research scholars as an important component of the strength of nation.
- To encourage programs for the training of scientific and technical personnel to fulfill the country's needs in science, education, agriculture, industry and defense.
- To encourage dissemination and discovery of knowledge in an atmosphere of scientific freedom.
- To Perform Interdisciplinary research activities among the motivated faculty and students to provide solutions for real-time problems.
- To inspire faculty and students to publish their research findings in indexed journals, writing projects and Register under IPR like copyrights and patents.
- To expedite signing of MOUs with national and international reputed institutions, and R & D agencies for research and product development.



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## About

Santhigiri Interdisciplinary Research Centre (SIRC), is a knowledge economy that triggers, unparalleled resources to the research community through collaboration and creativity. It is a centre of academic research and skill excellence. Faculty and students who are having a spark of innovative thoughts with right aptitude and attitude can be part of this platform.

The breadth view of Research Centre envision to enhance quality of interdisciplinary research and complete academic growth associating different stakeholders at both organisational and individual level.

Interdisciplinary Research was established in the campus to facilitate and promote Interdisciplinary research, innovations and collaborations, quality publications in peer-reviewed and indexed journals, product development and patenting.

## Working of SIRC

SIRC is headed by Director Research and Dean Research, look after Academic Research, Funded Projects, Consultancy Projects and an IP related issues respectively. The primary objective of the SIRC is to promote quality research programs, facilitate and support multi-disciplinary, inter University, International research proposals and Institute-industry interaction through:

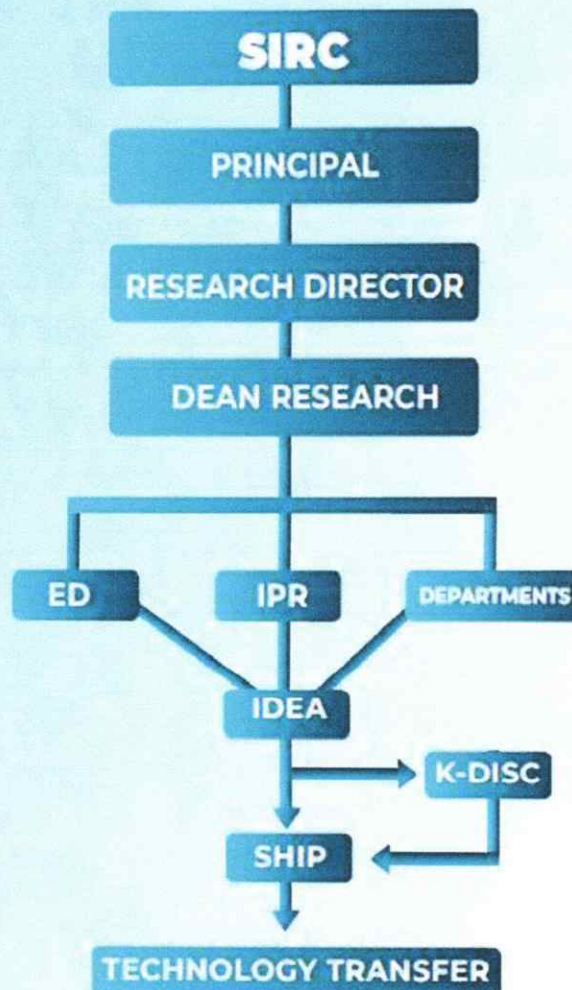
- Developing and nurturing international linkages for research and development.
- Organizing Generic Training Programs for Scholars.
- Formation of Research Forums and Research Groups.
- Interaction between various Research Groups through research forum meeting.
- Fostering of relationships with funding agencies to better understand research priorities.
- Support Short-term courses/Seminars/Workshops along with Conference and Symposiums for effective dissemination of knowledge.
- Establishing connectivity between Faculty and Researchers and organizing lectures by Eminent Scientists from various R&D organizations and Industry through visits.
- Improving the Institute-Industry interaction and provide need based technology to existing industries. priorities.
- Identifying and protecting intellectual property rights. Symposiums for effective dissemination of knowledge. priorities.



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- Promoting entrepreneurship promotion, incubation, and support systems, more particularly innovative ventures of the deep technology variety, with an enviable start-up ecosystem comprises Entrepreneurship Development Cell (ED), IDEA Club and SHIP.
- Selected scholars will be guided to systematically and diligently discover entrepreneurial opportunities and aids them to formally establish their start-ups via an effective combination of taught courses, intense research supported by supervision, and mentorship by highly accomplished entrepreneurs, thus possibility of commercialization happens through formal technology transfer. SIRC aids to elevate funds through the Kerala Innovation Fund to develop projects through Kerala Development and Innovation Strategic Council (K-DISC).



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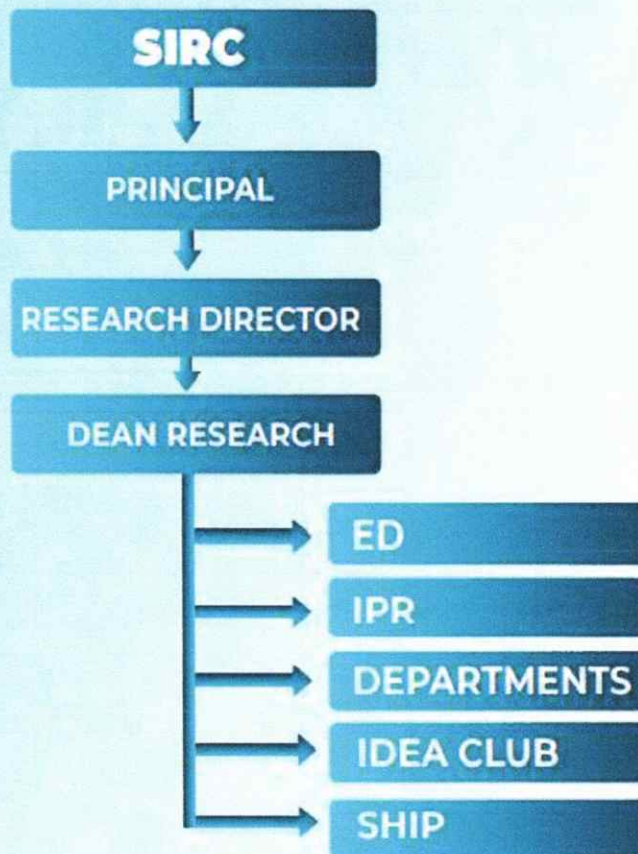
Entrepreneurship Development (ED) cell create an environment that fosters entrepreneurial spirit in students, by facilitating opportunities to interact with aspiring and well-established entrepreneurs. It also provides a platform to cultivate entrepreneurial skills among students.

Intellectual Property Rights (IPR) The purpose of the IPR cell is to facilitate, encourage, promote and safeguard scientific inquiry, research pursuits and the academic freedom of its faculty, researchers and students.

IDEA Club, is the preliminary platform where students can approach with their ideas, would inspire them to go a step further. It is a platform where students can share their innovative business ideas. Young Innovators can approach SHIP and present ideas via IDEA club through ED, IPR and Departments.

Santhigiri Hub for Innovation and Promotion (SHIP) is an Incubation facility with the mission of helping the students to launch their own Start-ups. The selected innovative ideas are submitted to the Kerala Development and Innovation Strategic Council (KDISC) under the Government of Kerala that supports talented young innovators financially and technically.

**ORGANOGRAM**



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## ED CELL

### ENTREPRENEURSHIP DEVELOPMENT CELL

#### VISION

To cater the needs of budding entrepreneurs with innovative ideas of societal relevance and there introducing a culture of entrepreneurship inside campus which strengthens the education system.

#### MISSION

To develop an eco-friendly system with required infrastructure which will enable students and faculty to innovate & develop their ideas with industrial standards and to seek support from government, industry and reputed academic institutions globally and create employment opportunity

- To initiate Entrepreneurship and provides a platform to students to validate their ideas and take them from laboratory to field.
- To develop the advanced skill of creativity and innovative thinking
- To empower and inspire students to thrive in the challenging world and to become employment creators than seekers.

### ABOUT ENTREPRENEURSHIP DEVELOPMENT CELL

The EDC is professionally accomplished by a perfect blend of faculty and students. The Coordinators are delegated with responsibilities for the smooth conduction of Awareness Programs, Events and Activities disseminating to the students in the Campus. The prominence advisory board of EDC comprises of renowned well established Entrepreneurs from various geographical regions whose ideas and expertise can be inspired. The EDC is there to offer appreciable recommendation on all aspects of entrepreneurship.

#### OBJECTIVES

- To Help Students groups to model their ideas.
- To enhance innovation, creative and design thinking among student community.
- Incubation capacity for faculty driven start-up and student/alumni start-up.
- Organize FDP, seminars and workshops, Distinguish talks for students, Faculty and Alumni encourage entrepreneurial culture.
- Strengthen Institute industry interaction cell activity and successfully use the outcomes for achieving the mission.
- Provide a platform for students to develop innovative products with global recognition and create business opportunities.
- Generate revenues through consultancy and student start-ups
- Spread awareness to students and faculty regarding IPR related activities



  
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## PROCEDURES

- Entrepreneurship Development Cell, provides a platform to all the students, who thrive to become entrepreneurs
- Organizes Seminars/workshops etc. for students for becoming Entrepreneurs.
- Scholars with novel ideas can be re-directed to IDEA Club for further progress.

## IDEA CLUB

The Intelligent Design and Evolution Awareness Club (IDEA Club) focuses on generating and developing creative ideas, fostering innovation, and providing a platform for students to collaborate on various projects and initiatives. The club is often centred around entrepreneurship, innovation, and problem-solving. They may host brainstorming sessions, workshops, and events related to idea generation.

IDEA Club aims to encourage students to think creatively, explore new concepts, and turn their ideas into tangible projects or businesses. It can be a valuable resource for students who are interested in entrepreneurship, innovation, and building a supportive community of like-minded individuals.

## VISION

Our vision is to create a culture of innovation on campus and encourage students to think creatively and generate novel solutions to real-world challenges.

## MISSION


The mission of an IDEA Club is often centred on promoting and facilitating idea generation and encourages members to think creatively and develop innovative concepts.

## HISTORY

The IDEA Club at Santhigiri College had its humble beginnings in the year 2018. Conceived as a platform to encourage students to explore their creative and innovative potential. As of 2022 rolled in, the IDEA Club underwent a significant transformation. The IDEA Club entered a new era in 2022 as it achieved full functionality with the collaborative effort between the SIR, ED Club, IP Club, Departments and SHIP.

## OBJECTIVES



  
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## SHIP

### SANTHIGIRI HUB FOR INNOVATION AND PROMOTION

SHIP is a platform where creative minds come together to explore, experiment, and execute their ideas. It was set up to instill a culture of innovation and entrepreneurship among the student community along with essential resources, and support to turn their ideas into reality.

### VISION

To create a vibrant and diverse community of innovators and entrepreneurs.

### MISSION

To empower our students to become innovators and entrepreneurs capable of solving real-world problems and creating positive social impacts.

### OBJECTIVES

- To inspire and motivate our students to think creatively and critically and to develop an innovative mindset.
- To equip our students with the necessary skills, knowledge, and tools to transform their ideas into viable products or services.
- To foster a culture of social responsibility and ethical conduct among our students and their ventures.



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**6<sup>TH</sup> NATIONAL CONFERENCE ON ADVANCED COMPUTING  
 AND COMMUNICATION TECHNOLOGY**

**BEST PAPER AWARD**

This is to certify that paper titled,

Robotic Process Automation

Authored by, Resmi K.R

Awarded best paper at the 6<sup>th</sup> National Conference on Advanced Computing and Communication Technology NCACC 2020.

Fr. Dr. Bobby Antony CMI

Principal



Dr. Dhanya Job

HOD

Department of Computer Science

Dr. Bijimol TK

Conference Convener



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## KURIAKOSE ELIAS COLLEGE

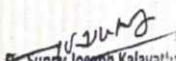
Affiliated to Mahatma Gandhi University  
NAAC Reaccredited 'A' Grade College, Mannanam, Kottayam, Kerala, India

**INTERNATIONAL CONFERENCE ON  
SCIENCE, ENGINEERING, TECHNOLOGY & MANAGEMENT (ICSETM-2017)**

Organized by  
**DEPARTMENT OF MATHEMATICS**

### *Certificate*


This is to certify that Ms. Resmi KR, Assistant Professor,  
Santhigiri College, Vazhithala, Thodupuzha has  
been selected as the Best Paper Presenter in Science/ Engineering/ Technology/ Management in the International  
Conference on Science, Engineering, Technology and Management (ICSETM - 2017) from 8<sup>th</sup> to 9<sup>th</sup> March 2017.

  
Br. Sunny Joseph Kalayathram  
ICSETM Conference Chair



  
Rev. Dr. Benny Sebastian Thottananiyil CMI  
ICSETM Chairman



  
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**CERTIFICATE  
OF RECOGNITION**

This certificate is awarded to: **Mathew Jolly**

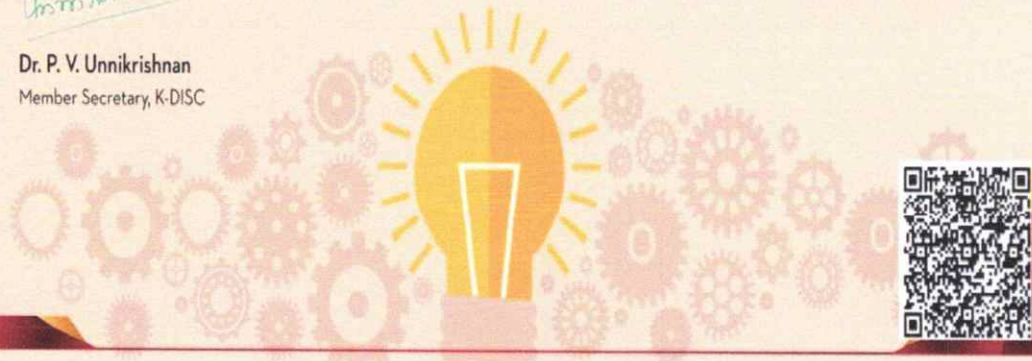
YIP ID: **22YIP019989**

Idea ID: **43941**

for completing all the requirements and submitting an idea in the Young Innovators Programme 6.0 conducted by the Kerala Development & Innovation Strategic Council.

*Unnathil Sankshapthi*

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



*J. J. Jolly*

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ISO 9000:2008 Certified

**International Conference on Computational Intelligence in Machine Learning**

**ICCIML 2022**

18-19 November 2022

Venue:- Geethanjali College of Engineering & Technology, Hyderabad, India

**Best Paper Award Certificate**

**Congratulations & Gratitude to**

**Resmi K R**

**from**

**Santhigiri College, Idukki**

**For presenting the paper on**

**A Deep Learning Method for Autism Spectrum Disorder**

**in track**

**Computational Intelligence in Food and Healthcare**

**Vinit Kumar Gunjan, Ph.D.**  
General Chair

**A Sreelakshmi, Ph.D.**  
Program Chair



**A Sreelakshmi**  
PROFESSOR  
OF COMPUTER SCIENCES  
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# Computer Society of India™

is pleased to certify that

**Santhigiri College of Computer Sciences**

**Idukki District - 685583**

**Kerala**

is an

## Educational Institution Member

(Membership Number M10015)

of

## Computer Society of India



(Validity of this certificate is subject to renewal  
 of CSI membership and other norms of the Society)

**Valid till 30<sup>th</sup> June 2020**

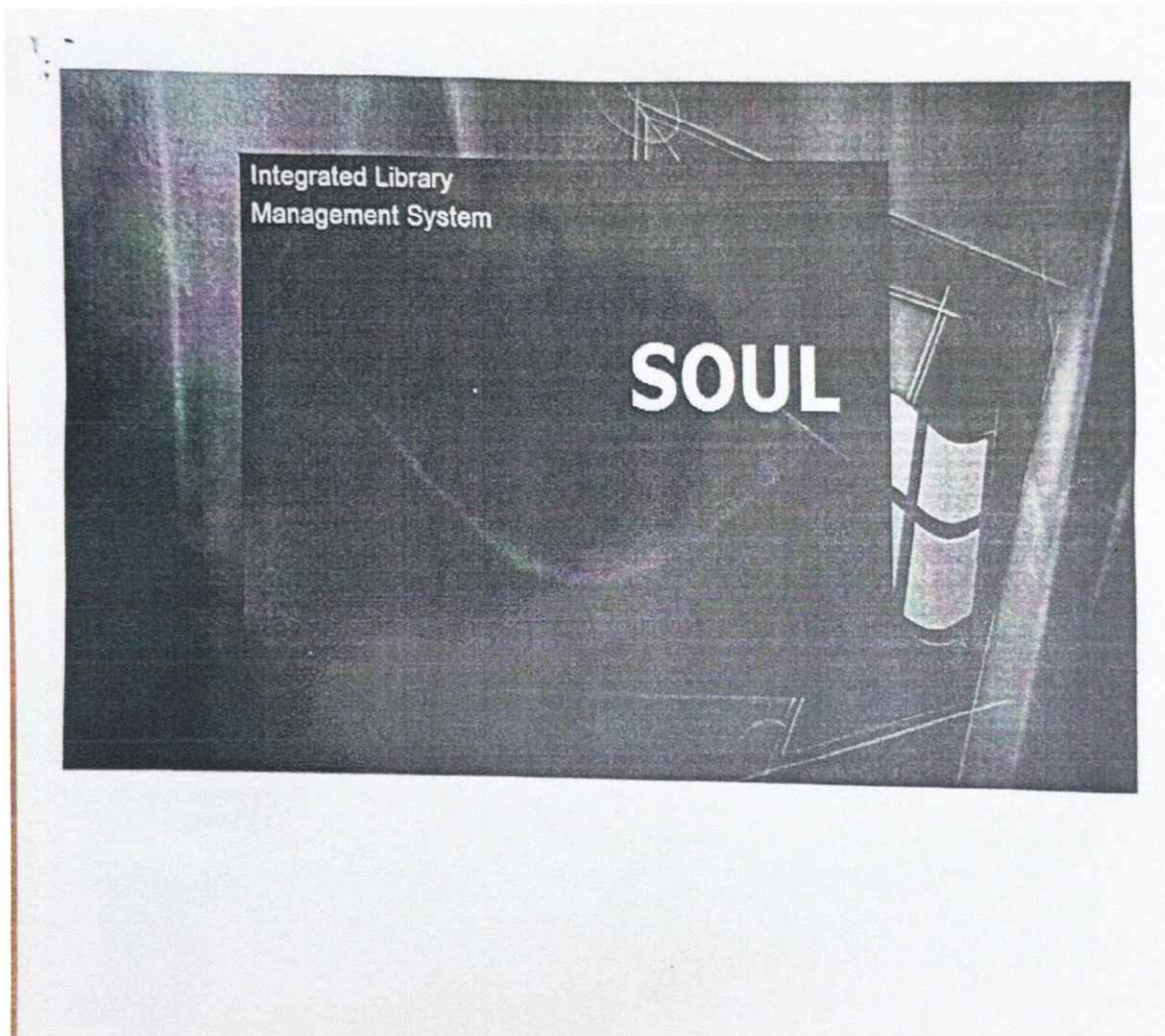
Chennai  
 1<sup>st</sup> July 2018

*Ahnlajak*  
 Hon. Secretary



*J. Thekkumkara*

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*J. V. V. V.*

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SCL	6518	9324

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- Daily Issue
- Daily Return
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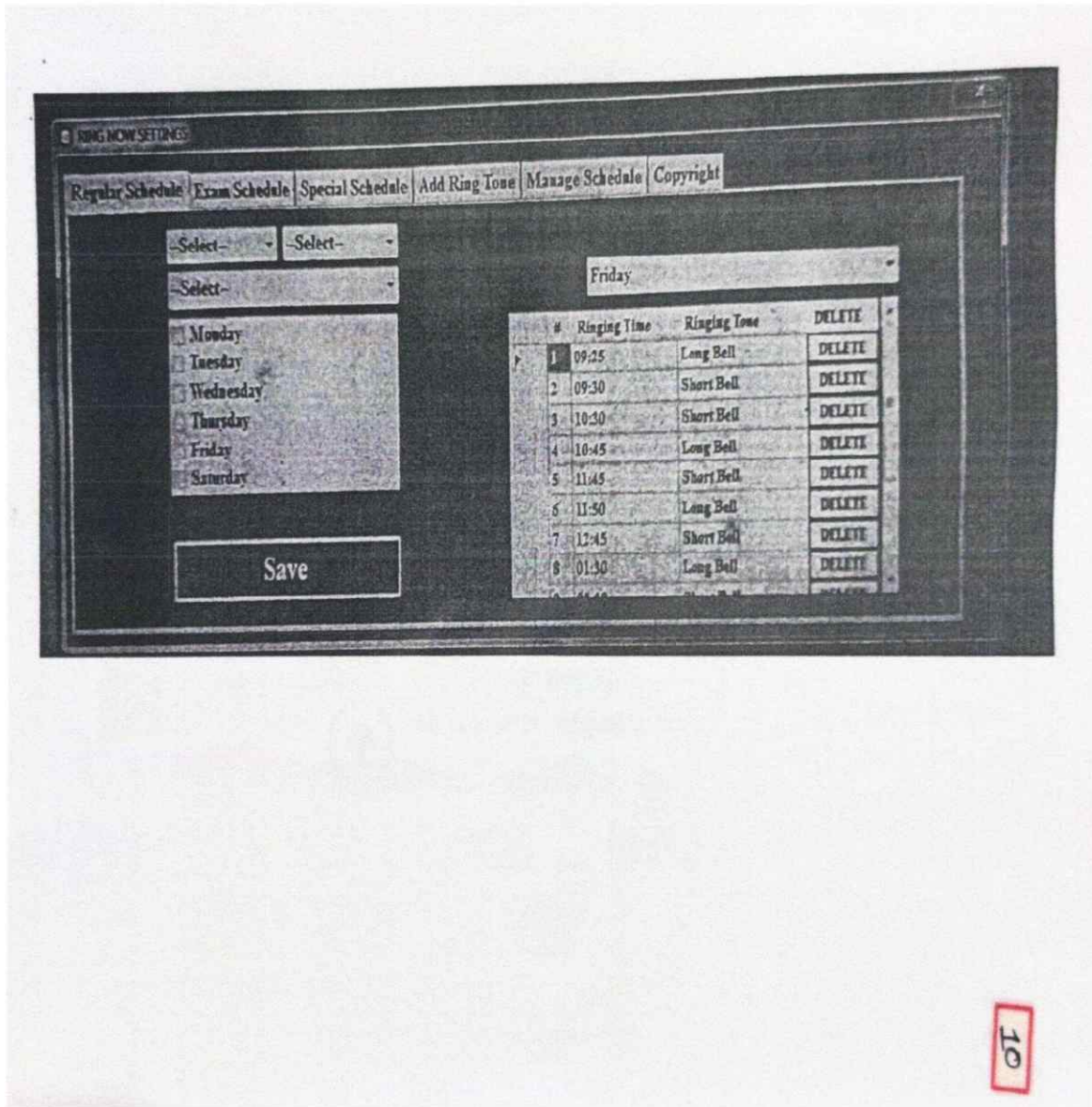
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<https://saci-staff.santhigiricollege.com/cgi-bin/koha/catalogue/search.pl>

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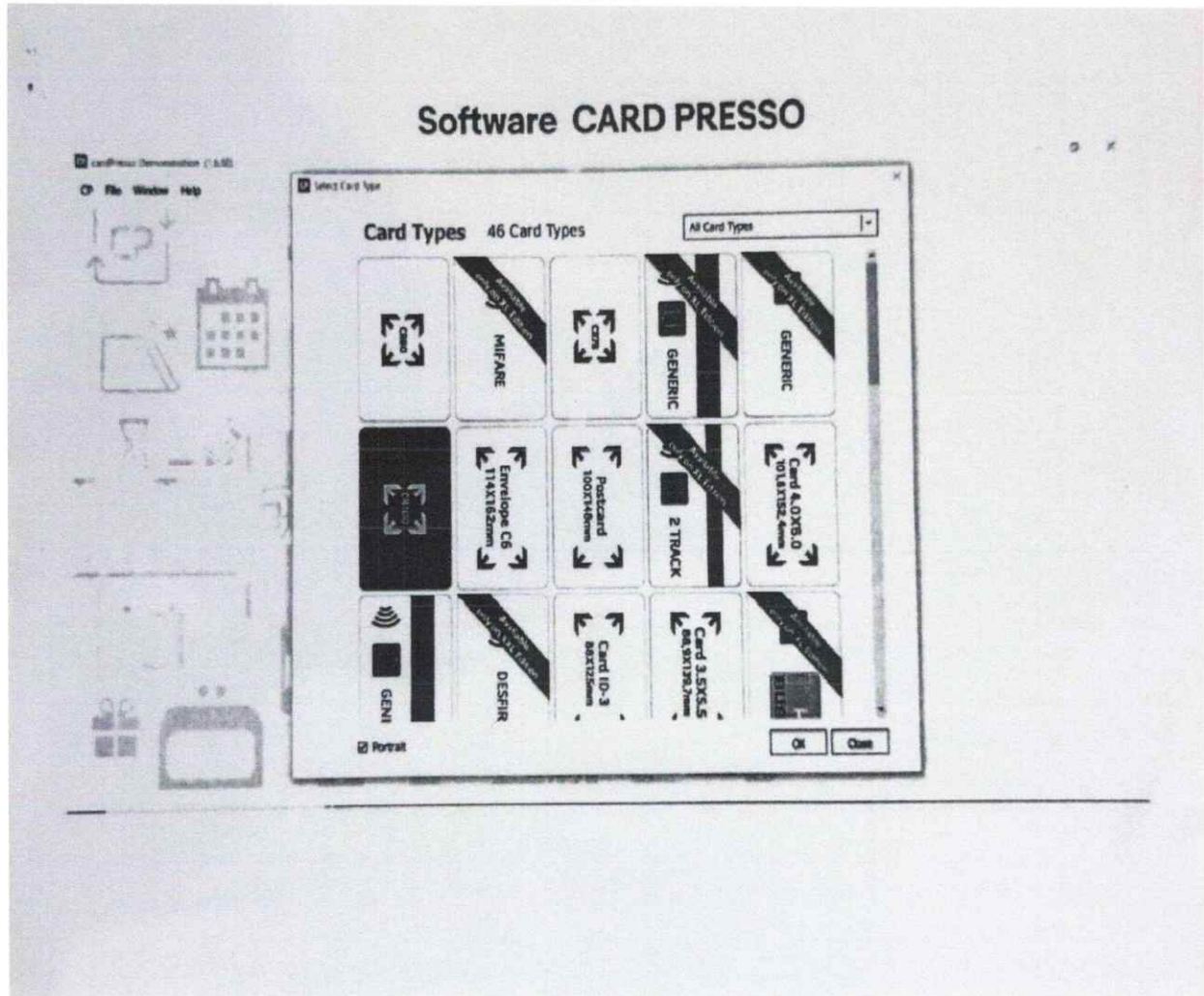
*J. Uthman*  
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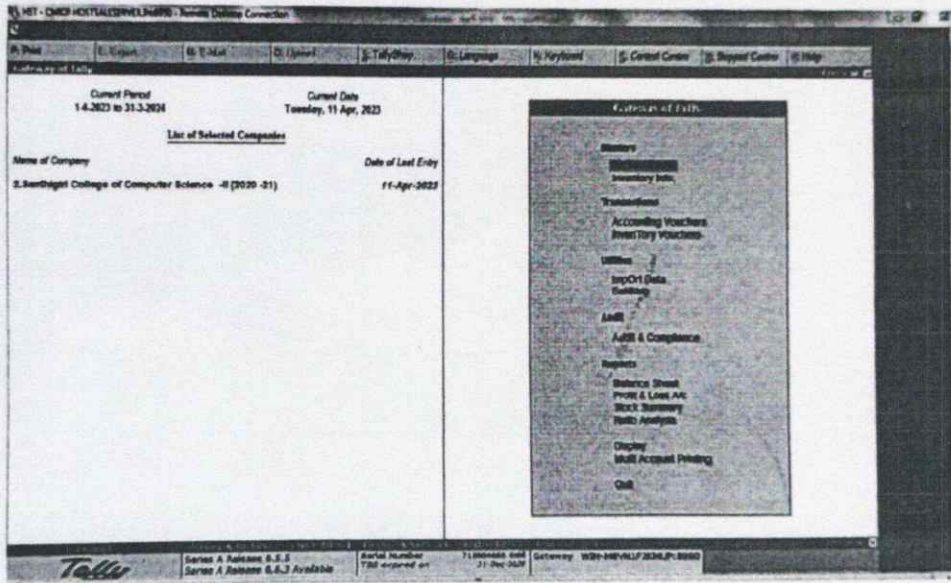
*J. John*

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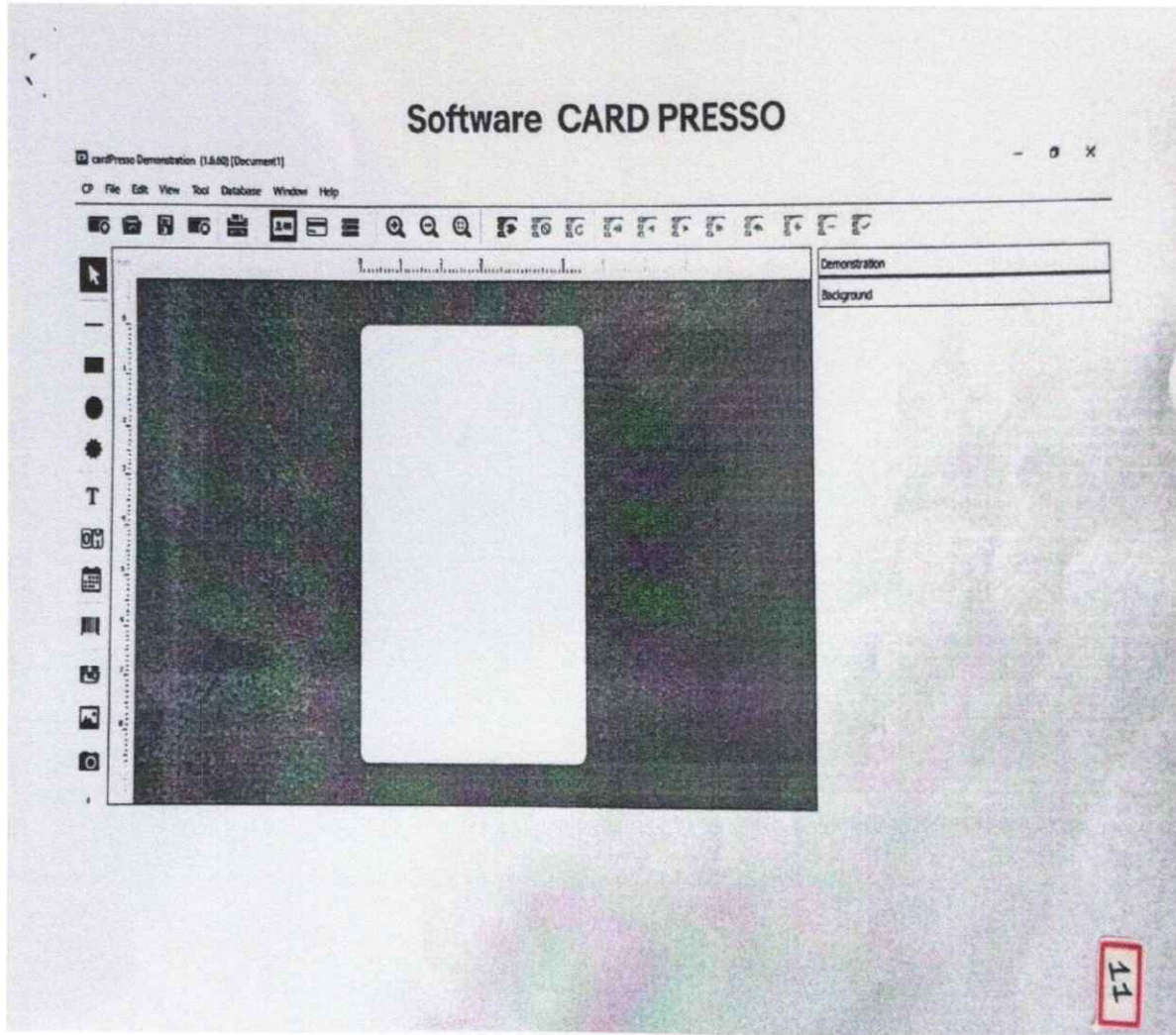


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## Software SCA

File Master Transaction Report

TC

### Transfer Certificate

T.C No	1706/23	Admission No.		Fill
Name				
Date of Birth	5/19/2023			
Date of Admission	5/16/2023			
Date of Leaving	5/18/2023			
Whether appeared any examinations	<input type="radio"/> Yes <input type="radio"/> No			
Class in which the student studied at the time of leaving				
Whether qualified for admission to a higher class	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A			
Whether the student has paid all fees/ dues	<input type="radio"/> Yes <input type="radio"/> No			
Name of the University/ institution for which the student was last presented from the college				
Register No and date of registration	--Month-- --Year--			
Whether passed or failed	<input type="radio"/> Passed <input type="radio"/> Failed <input type="radio"/> Discontinued			
	<input type="radio"/> Course Completed <input type="radio"/> College Transfer			
	<input type="radio"/> Dismissed			
Date of issue of Transfer Certificate	5/18/2023			
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Print both TC and Cardset

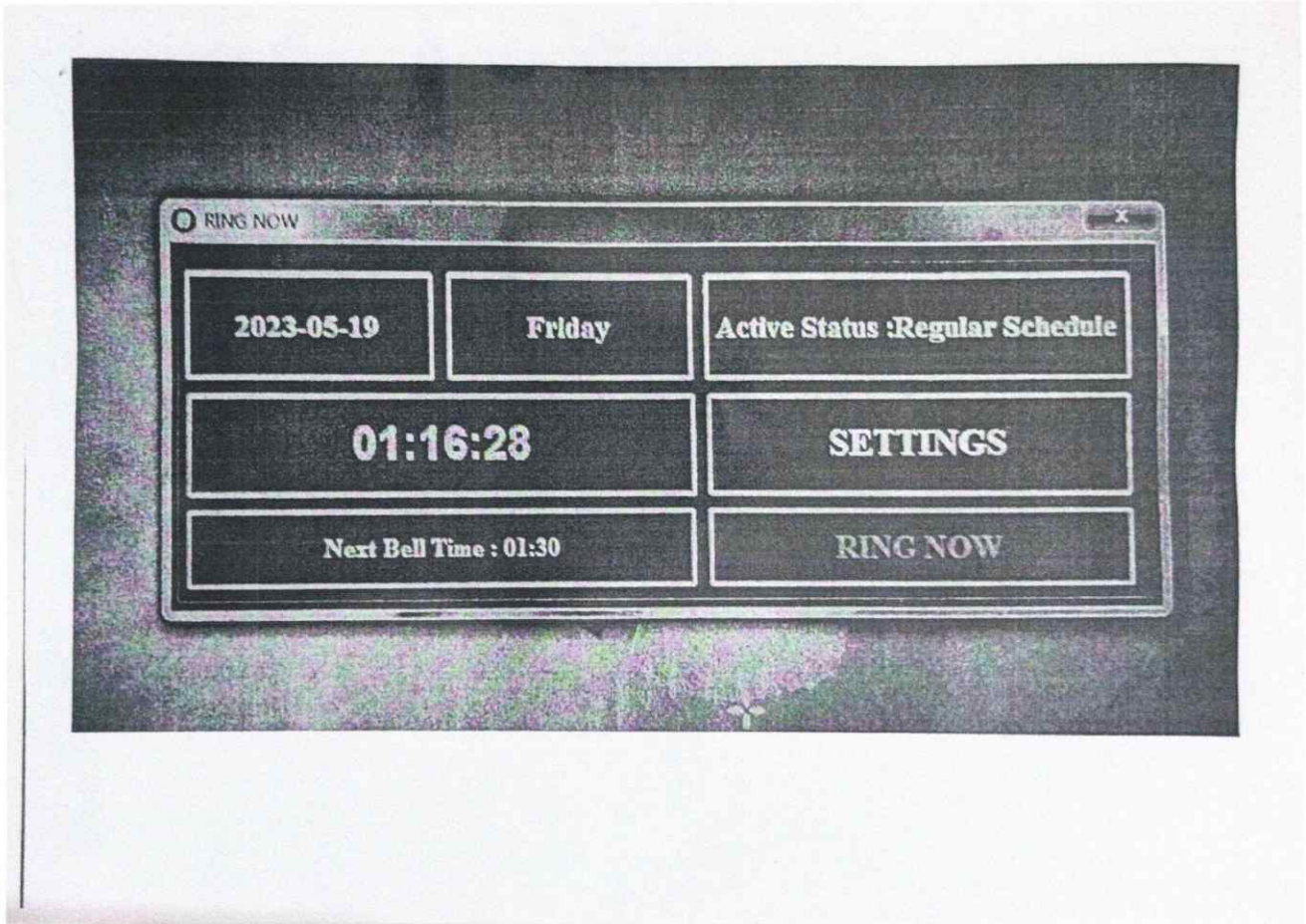
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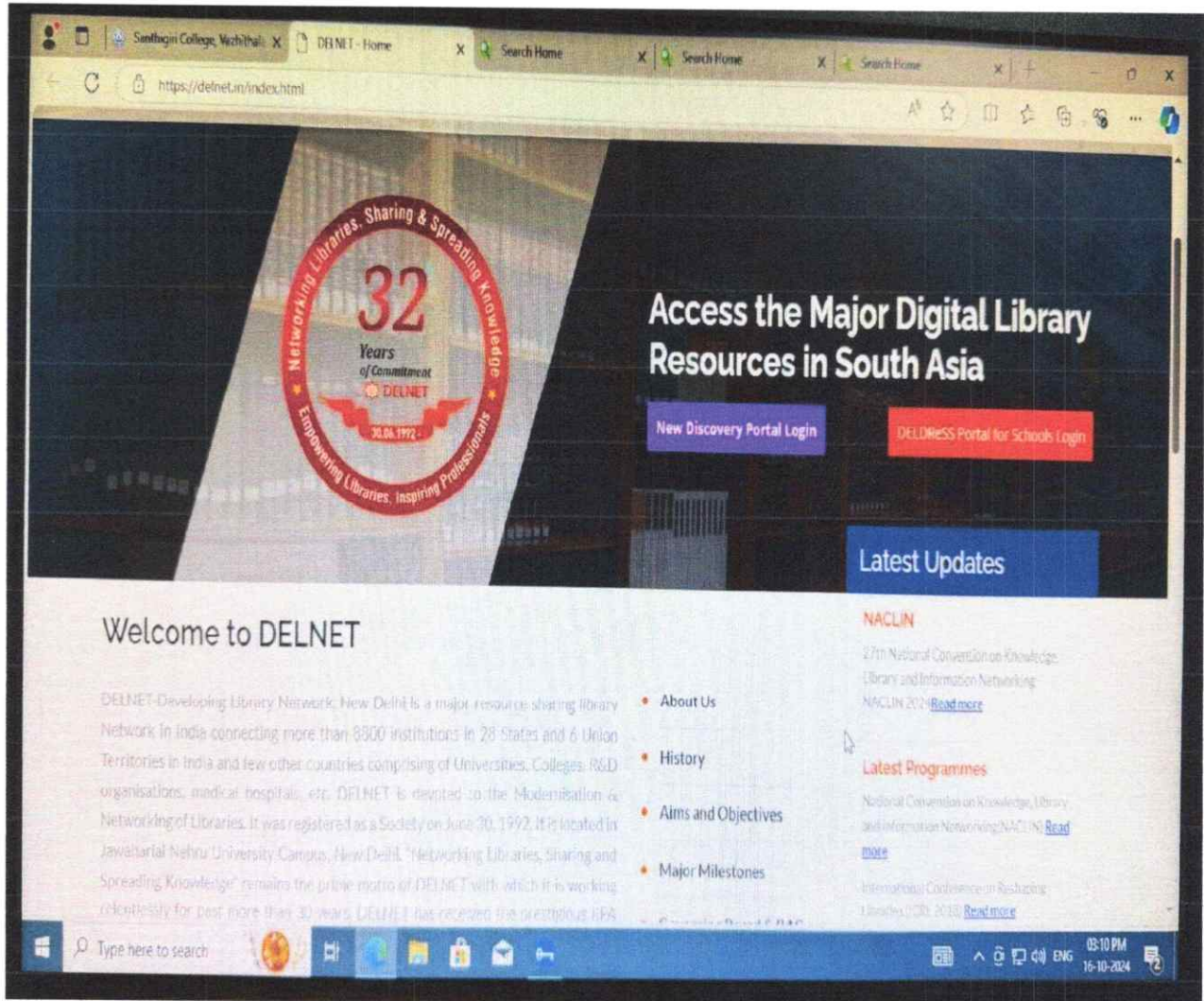


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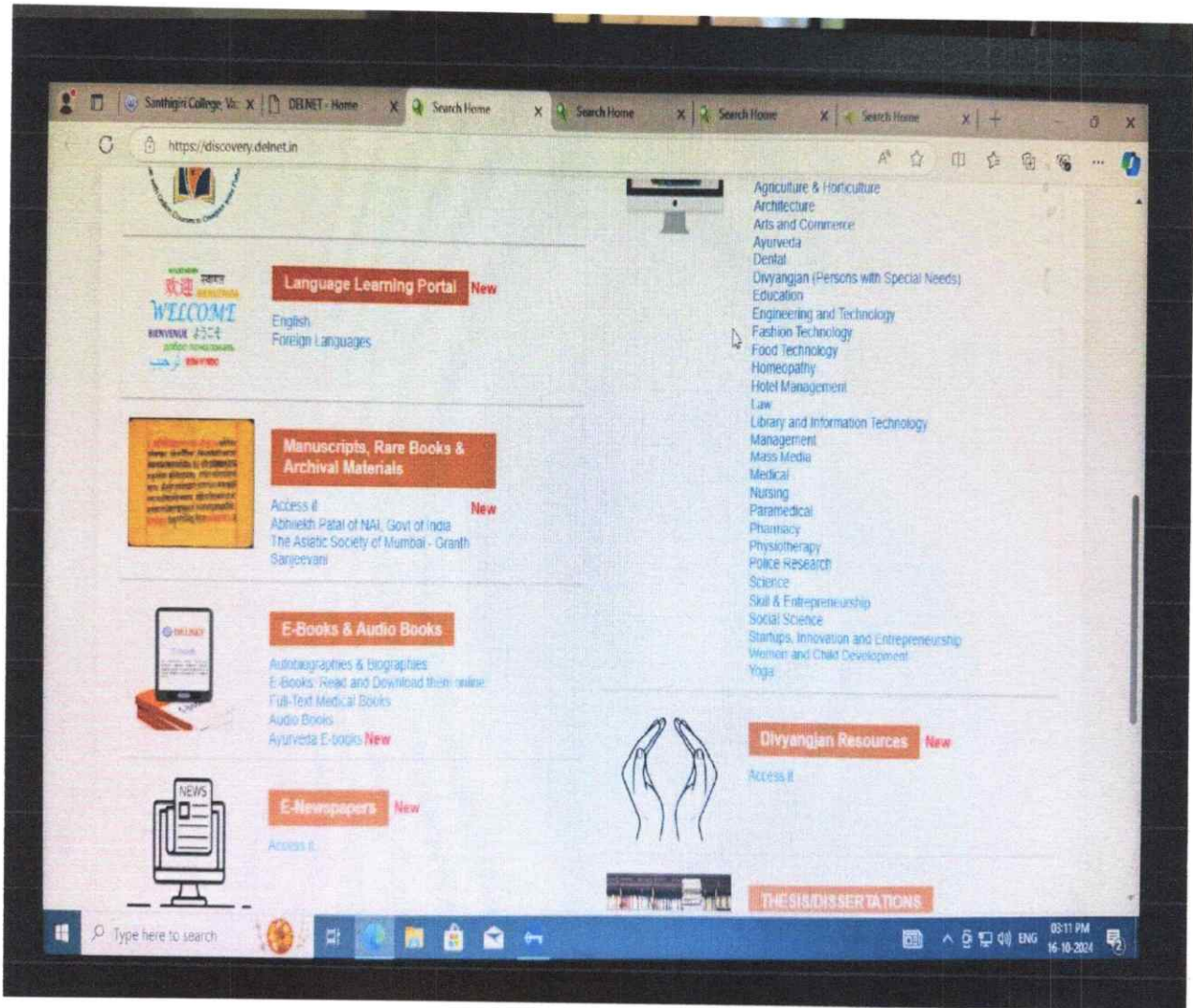
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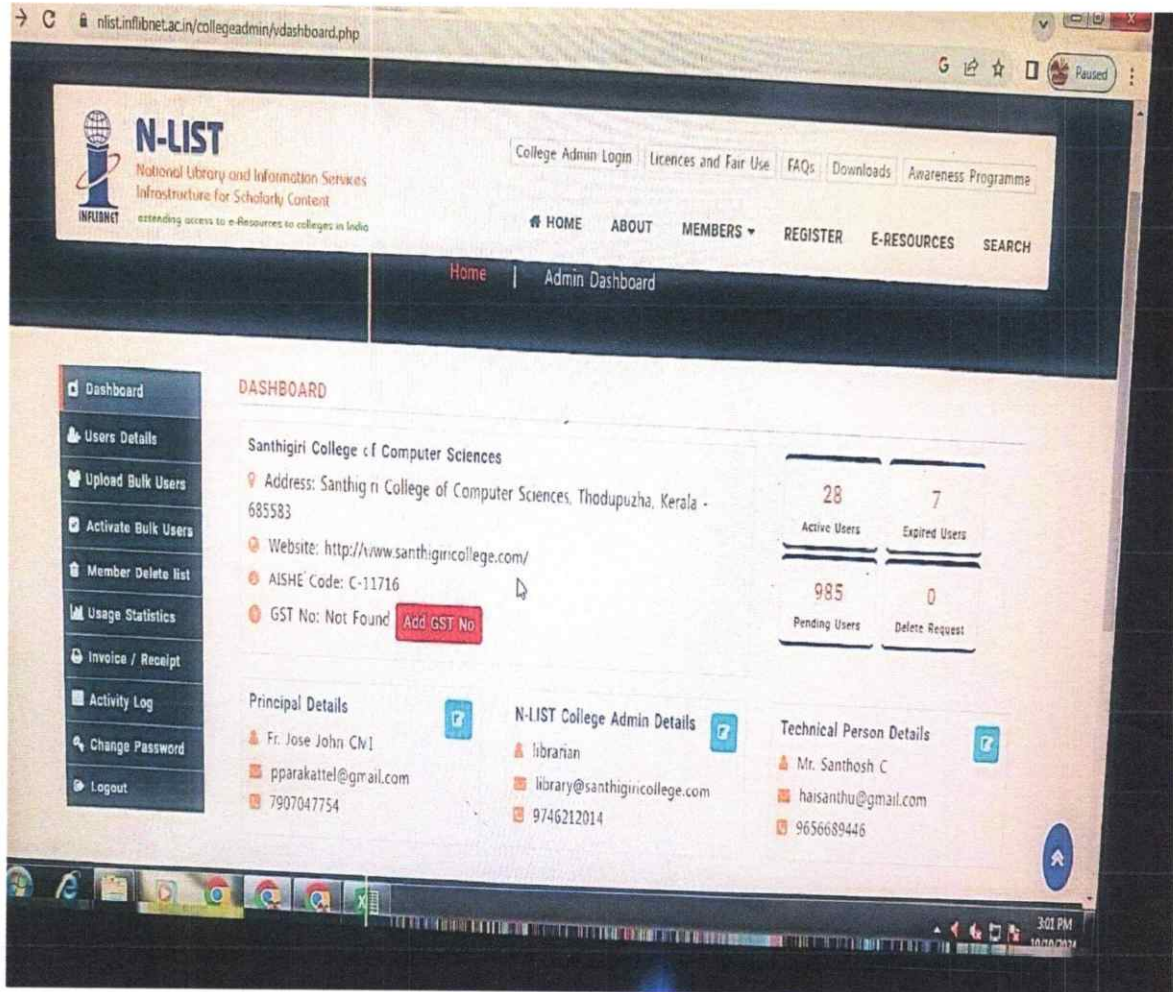
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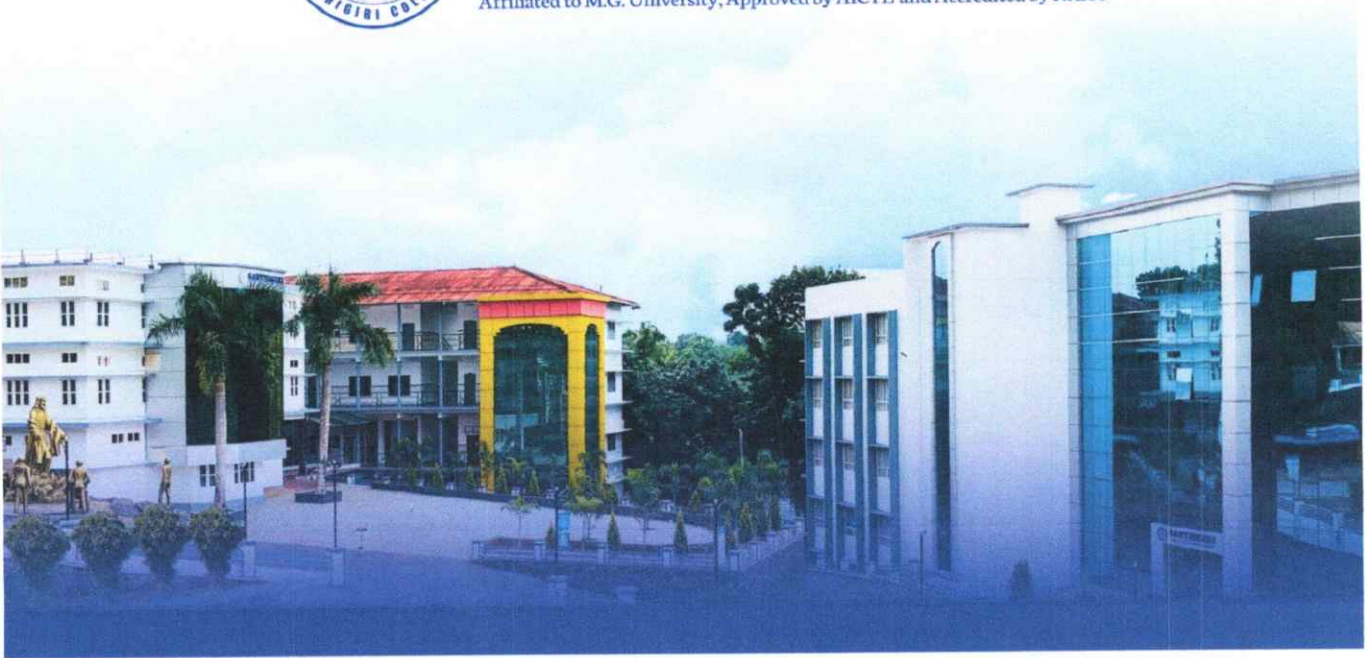


  
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# **SANTHIGIRI COLLEGE OF COMPUTER SCIENCES**

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## **SANTHIGIRI HUB FOR INNOVATION AND PROMOTION (SHIP)**

### **2023-2024**



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## **IDEA Club and Santhigiri Hub for Innovation and Promotion (SHIP)**

### **Report for the Academic year 2023-24**

#### **Introduction**

Santhigiri College boasts a well-established incubation center, known as the Santhigiri Hub for Innovation and Promotion (SHIP), operational since 2017. Officially inaugurated by Mr. Anoop Ambika, CEO of Kerala Startup Mission, on February 10, 2023, SHIP serves as a vital support system for budding entrepreneurs and startups affiliated with the college.

The Intelligent Design and Evolution Awareness Club (IDEA Club) focuses on generating and developing creative ideas, fostering innovation, and providing a platform for students to collaborate on various projects and initiatives.

#### **Mission and Objectives:**

The primary aim of SHIP is to provide comprehensive support to students and alumni harbouring entrepreneurial ambitions. Through mentorship, guidance, and access to essential resources, SHIP nurtures startup ideas from conception to realization. It offers physical workspace equipped with necessary infrastructure, including office space, internet connectivity, and meeting rooms, to facilitate the smooth operation of startups.

The mission of an IDEA Club is often centred on promoting and facilitating idea generation and encourages members to think creatively and develop innovative concepts.

#### **Current Projects:**

As of now, SHIP oversees nine ongoing projects, indicating its active involvement in fostering innovation and entrepreneurship within the college community.

#### **Needs Assessment Survey**

In a proactive move to align with student aspirations, SHIP and the IDEA Club and recently conducted a comprehensive Needs Assessment Survey. This initiative underscores their commitment to cultivating a culture of creativity, innovation, and collaboration among

students. The survey aimed to gather in-depth insights into the diverse needs and goals of students, ensuring that future endeavours of these clubs are tailored to meet these expectations. By understanding the evolving dynamics of student-centered education, SHIP and IDEA Club aim to enhance the college's academic and extracurricular landscape.

#### **Outcomes:**

**SHIP 2023-2024**



  
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The results from this survey are anticipated to lay the groundwork for developing a talent hunt and introducing new programs and opportunities within the college. By actively responding to the evolving needs of students, SHIP and IDEA Club demonstrate their dedication to nurturing the potential of the college community.

The proactive approach taken by SHIP and IDEA Club signifies their commitment to fostering innovation and entrepreneurship within Santhigiri College. The anticipation surrounding the implementation of new programs and opportunities underscores the college's dedication to providing holistic education and empowering its students for future success.

### **Brain Tech 2k24**

**Introduction:** The program aimed to instil a vibrant culture of innovation, creativity, and entrepreneurship among the students of Santhigiri College. Through a structured competition, participants were encouraged to develop and present their entrepreneurial ideas, fostering both academic and practical skills.

**Program Structure:** The competition consisted of two distinct stages:

1. *Idea Submission Phase:* Participants were tasked with submitting their innovative ideas either through a Google Form or via an idea box. This initial phase served as a platform for students to articulate their entrepreneurial visions.
2. *Presentation Stage:* Selected participants progressed to the second stage, where they presented their ideas. This phase provided an opportunity for students to showcase their creativity and entrepreneurial spirit in front of a panel of judges.

**Outcomes:** Five groups successfully advanced to the second round, demonstrating the depth of creativity and innovation among the student body. All selected candidates were granted access to the SHIP facilities, enriching their entrepreneurial journey with practical resources and support.

Ultimately, two teams emerged victorious:

- The first-place team was awarded a cash prize of Rs.2000, recognizing their outstanding entrepreneurial idea and presentation.
- The second-place team received Rs.1500, acknowledging their commendable effort and contribution to the competition.





**Collaborative Synergy:** This initiative underscored the collaborative synergy between the Santhigiri Hub for Innovation and Promotion (SHIP) and the IDEA Club. Together, these entities played a pivotal role in shaping the academic and entrepreneurial landscape of Santhigiri College. By providing platforms for innovation and collaboration, they paved the way for a more dynamic and innovative future for the institution.

**Conclusion:** In conclusion, the program successfully fostered a culture of innovation and entrepreneurship at Santhigiri College. Through structured competition and collaborative efforts, students were empowered to explore their entrepreneurial potential and contribute to the broader academic and entrepreneurial ecosystem. The program's success highlights the importance of fostering innovation and collaboration in higher education institutions, paving the way for a brighter and more innovative future.





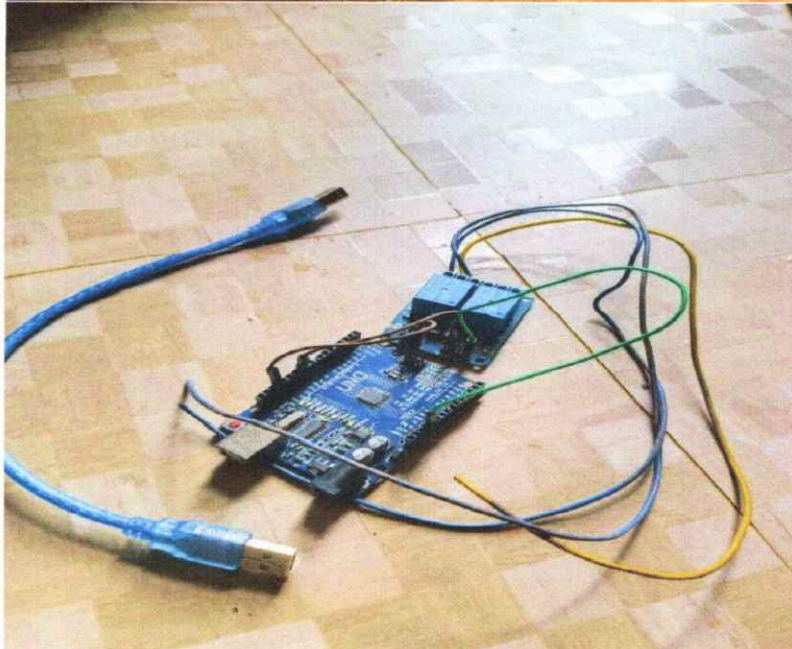
# SHIP ONGOING PROJECTS





## Sample photographs of the projects

**Tech Farm - Incubator**



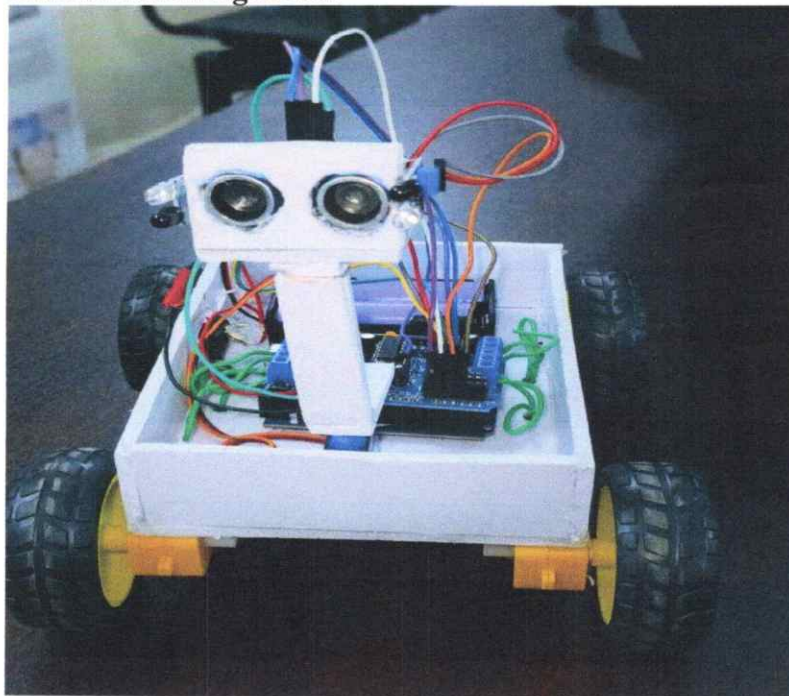


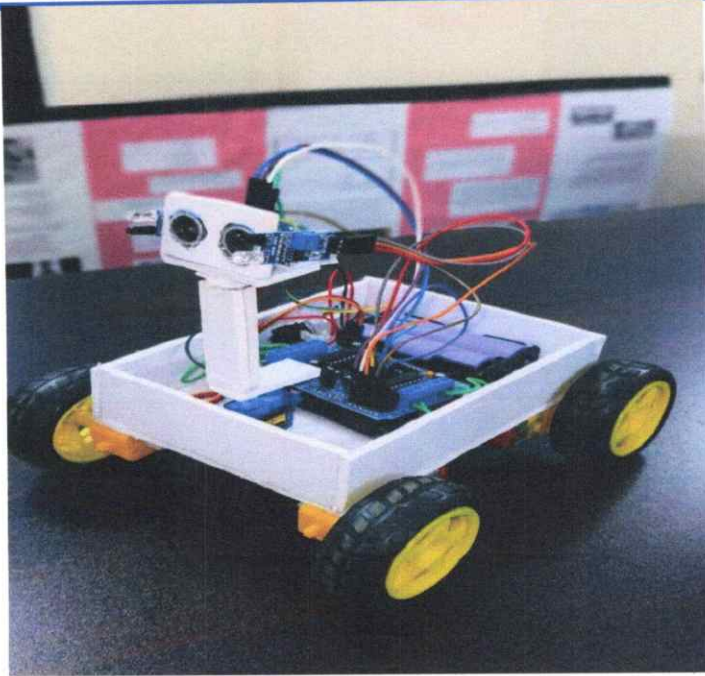


**Tech Farm -Dryer**



**Human following Robot**





*Note: Detailed reports of the events are kept in separate file.*

Prepared by  
Remya R (SHIP Coordinator) & Rajesh A V (Idea Club Coordinator)

