

**Sacred Heart College (Autonomous)**

**[Accredited by NAAC (4th Cycle Under RAF) with A+ Grade [3.31/4]**

**Tirupattur, Tamil Nadu.**



**Annual Report 2022-23**



**A. About IIC Institute:**

SACRED HEART COLLEGE with its Institution's Innovation Council (IIC) is focused on creating a conducive environment for and accelerating innovations, (R&D) Research & Development activities with business incubations, Start-ups as entrepreneurship endeavor and other support service for the promotion of the same.

The innovation aspect of IIC will provide a climate and a culture of research among the students and faculties of various departments of the college. It will facilitate the eco-system needed for innovating products and processes.

**B. Brief mention of key functionaries at the IIC Institute**

1	Dr. I. NIYAS AHAMED	President
2.	Dr. G. THEOPHIL ANAND	convenor
3	Dr. S.A. MARTIN BRITTO DHAS	IPR Activity coordinator

**C. Portfolio/graphical/Tabular representation of Resource strength (human capital and Physical capital) of the IIC institution**

- Total No. of IIC Members - 20
- Total No. of IAs - NIL
- Total No. of faculty Mentors 5
- Pre-Incubation Units, - nil

- Incubation Units -1
- IP Facilitation Unit: Available with TNSCST funding facilities, IPR facilitation Centre

**D. Highlight Facilities, Infrastructure of Pre-Incubation & Incubation kind and Student bodies/clubs engaged in promotion of Innovation and Entrepreneurship in the campus.**

**CENTRE FOR INNOVATION AND BUSINESS INCUBATION (CIBI)**

- To promote innovation as an integral component of the campus culture
- To assist students in developing products relating to their curriculum
- To identify, encourage and mentor young graduates with creative thinking to develop and manufacture new products addressing the needs and challenges faced by society, etc

**E. Highlight Achievements (Narrative/Graphical/tabular representation)**

- Number and Different types of I&E and IPR activities Conducted

NIL

- No. of student's & faculty ideas generated

A total of 10 new discoveries were exhibited this year in two categories as research processes and research products. Of these, 5 were from the Process and 5 from Product. A panel of experts examined these and selected the best ones. Prizes and certificates were awarded to the winners.

- No. of student's & faculty Innovation/prototypes developed

NIL

- No. of IPs generated, published and granted

NIL

- No. of Student & Faculty Start-ups/Ventures established.

NIL

- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus

Rs. 2 Lakhs

- Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR

NIL

- No. of Technology Transfer and Commercialisation happened

NIL

**F. Highlight few best IIC Faculty/Student members and their achievements/ Rewarded for the innovations at different forum**

1. In-charge of micro coordination of various activities for promotion of research and innovation culture on campus
2. Identify and promote probable candidates among the students and staff
3. Identify, scrutinize, and enhance good projects of staff and students
4. Facilitating consciously the team, multidisciplinary and community-oriented application approach in developing projects
5. Assisting in framing and standardizing norms for evaluating projects
6. Finalizing investigators and budget for the proposals.

Sacred Heart College, every year, recognizes young inventors and introduces their innovations and ideas to the society through the event called SHYIA (**Sacred Heart Young Inventor Award**). The event for 2023 was held on Monday, **06.03.2023** in the **Kamaraj Arangam**, at **9.30 a.m.** in the College premises.

The Principal of Sacred Heart College, **Rev. Dr. D. Maria Antony Raj, SDB**, cut open the ribbon and inaugurated **SHYIA 2023**. He welcomed and appreciated the participants for their efforts. After the inaugural ceremony the judges evaluated the products and processes presented by the participants.



The esteemed adjudicators for the event were, **Dr. S. Vijayanand**, Assistant Professor (Senior Grade), Department of Biotechnology, Thiruvalluvar University, Serkkadu, Vellore, **Dr. A. Manimaran**, Assistant Professor (Senior Grade), Department of Mathematics, School of Advanced Sciences, Vellore Institute of Technology (Deemed to be University), Vellore, **Dr. Y. Edison Nesadoss**, Head, Department of Social Work, Voorhees College, Vellore District, and **Dr. S. Srinath**, Director, Ziwvit Educational and Research Centre, Tamil Nadu.

The event concluded at 4.30 P.M. with the valedictory function. **Rev. Dr. John Alexander, SDB** the **Rector and Secretary** presided over the valedictory function and released the **fourth edition souvenir of SHIYA**. **Rev. Dr. K. A. Maria Arockiaraj, SDB**, the **Additional Principal, Shift II**, delivered the key note address. The Judges after being introduced, offered their insights and valuable feedback to the participants.



**The Computation and Mathematical** domain was coordinated by **Dr. S. U. Vasantha Kumar** and **Dr. A. George Louis Raja**. **The Life Sciences** domain was coordinated by **Dr. Niyas Ahmed** and **Dr. M. Manikandan**. **The Language and Social Sciences** domain was coordinated by **Dr. S. Sasikumar** and **Dr. K. Arockiaraj**. **Physical and Chemical Sciences** was coordinated by **Dr. S. A. Martin Britto Dhas** and **Dr. S. Shekar**.

A total of **390 participants** from **11 colleges** attended the event. **Eight colleges** from within the state and **three colleges** from other states participated. A total of **135 Research Projects** belonging to various domains; **Computing and Mathematical Sciences - 25 Projects, Languages and Social Sciences - 24 Projects, Physical and Chemical Sciences - 27 Projects, Life Sciences - 63 Projects**, were exhibited.





The proposals were classified as research processes and research products. The best proposals were selected based on **Novelty, Originality, Presentation, Utility/Application, and Patentability**. Prizes and certificates were awarded to the winners of each domain.

The following were the prize winners: For **Language and Social Sciences**, **Mr. Rahul Kumar and his team** from **Sacred Heart College** won the **First place** for their project titled, **Augmented Reality Shopping/Virtual Reality Shopping**. **P. Divya & team** from **Sacred Heart College** won the **Second place** for the project titled **Smart Helmet Project to Avoid Accidents**. **Sehban Ahmed** from **Islamiah College** won the **third place** for the project on **Computational Estimate of Air Quality**.



**Computational and Chemical Sciences: Maria Joseph and team Sacred Heart College won the first place for the project Oxygen from Hydrogenated Water using Indigenously Constructed Shock Tube. The second place was won by A.F. Poomani and team from Sacred Heart College for The Guardian Google's. V. Kalaiselvi and team from Sacred Heart College won the third place for the project titled Organic Mosquito Repellent and Herbal Commercial Products.**

**Computing and Mathematical Sciences prize winners are as follows: D. Sagayaraj and S. Don Richard, from Sacred Heart College won the first place for Coyley Digraphs of the Group Generated by Higher Order Derivatives. Elavarasan & team from Sacred Heart College won the second place for their title Knight Tour Crypto System. The third place was won by P. Monika & S. Vinothini from Sacred Heart College for their project on Rail Fence and Odd Even Transposition Technique in Network Security. Prize winners of Life Sciences are as follows: The first place was won by Swetha and team, from Sacred Heart College for their project on Formulation of Bio Products for Beauty and Safety Integumentary System. The second prize was won by B. Lokeshwari and team from Sacred Heart College for their proposal on Modified Form of Cattle Field. The third place was won by S. Deena Dayal and Vignesh from Loyola College, Chennai for the project on Bio Filter for the Bio Remediation of the Vehicle Exhaust Using Purple Sulphur Bacteria. Two consolation prizes were given to each of the respective domains.**

**The IPR (Intellectual Property Rights) cell of the college, arranged for the patenting of the best inventions. Rev. Dr. G. Theophil Anand, SDB, Vice-**



**Principal, (Admin) Shift I, and Dr. P. Saranraj, Head of the Department of Microbiology, coordinated the entire event.**

## **MOTIVATIONAL SESSION BY SUCCESSFUL ENTREPRENEUR**

Institution's Innovation Council (IIC) Sacred Heart College (Autonomous) organized offline/ Hybrid mode program on “MOTIVATIONAL SESSION BY SUCCESSFUL ENTREPRENEUR” on 13/09/2022. The program was started by invoking the blessings of God imparted through a prayer song followed by wonderful welcome address. Then the program was led by the resource person “Mr. P. Enoch Thomas”. He enlightened the gatherings with his vast knowledge and experience which was very helpful for the students. This program was coordinated by Dr. G. Theophil Anand, Vice-Principal of the college as Convenor and Dr. I. Niyas Ahamed, IIC- President as organizing secretary. At the end of the day students gained knowledge on how to approach a problem and solve it. The session was successfully concluded by his traditional way of gratitude.

**SACRED HEART COLLEGE**  
(Autonomous)  
Tirupattur Dt. Tirupattur - 635601

**Centre for Innovation and Business Incubation (CIBI)**

*Cordially invites you for*  
**MOTIVATIONAL SESSION**  
*by*  
**"SUCCESSFUL ENTREPRENEUR / START-UP FOUNDER"**

*Resource Person*  
**MR. ENOCH THOMAS P**  
Head, Selyam Ravi Renault,  
CEO-Toms Bicycle Studio

**13 SEPT. 2022**

**Time: 11:00 a.m. (S-II)  
02:30 p.m. (S-I)**

**Venue: Pope Francis Hall**

Logos on the left: Intellectual Property India, Institution's Innovation Council, MoE's Innovation Cell (Government of India), SIC (State Innovation Council), AKITE (All India Knowledge Innovation Technology Entrepreneurship), EDII-TN (Entrepreneurship Development Institute of Tamil Nadu).

Bottom right graphics: 'INNOVATION' with icons for 'BRIGHT IDEAS', 'BUSINESS', 'FEARS', 'TEAM', 'FEASIBILITY', 'TARGET', 'CREATIVITY', 'PLAN', 'WINGS', 'LIFE', 'DREAMS', 'GOALS', 'VISION', 'MOTIVATION', 'INSPIRATION', 'DREAMS', 'GOALS', 'VISION', 'MOTIVATION', 'INSPIRATION'.



## **PROBLEM SOLVING AND IDEATION WORKSHOP DESCRIPTION**

Institution's Innovation Council (IIC) Sacred Heart College (Autonomous) organized offline/ Hybrid mode program on “PROBLEM SOLVING AND IDEATION WORKSHOP DESCRIPTION” The program was started by invoking the blessings of God imparted through a prayer song followed by wonderful welcome address. Then the program was led by the chief guest “Dr. D. Santhanakrishnan”. He enlightened the gatherings with his vast knowledge and experience which was very helpful for the students. This program was coordinated by Dr. G. Theophil Anand, Vice-Principal of the college as Convenor and Dr. I. Niyas Ahamed, IIC-President as organizing secretary. At the end of the day students gained knowledge on how to approach a problem and solve it. The session was successfully concluded by his traditional way of gratitude.

The poster is for a workshop organized by the Centre for Innovation and Business Incubation (CIBI) at Sacred Heart College (Autonomous), Tirupattur - 635601. The workshop is titled "PROBLEM SOLVING & IDEATION WORKSHOP DESCRIPTION" and is scheduled for October 12, 2022. The chief guest is Dr. D. Santhanakrishnan, M.Com (IB), M.B.A., Ph.D., who is an Associate Professor & Head Corporate Secretaryship, Innovation Ambassador, and Coordinator - E Cell & SR-CAS Innovation Centre at Sri Ramakrishna College of Arts & Science (Autonomous), Coimbatore - 641 006. The workshop will be held on October 12, 2022, at two shifts: Shift II from 11:00 a.m. to 01:00 p.m. and Shift I from 02:30 p.m. to 04:30 p.m. The poster features a photo of Dr. Santhanakrishnan speaking into a microphone, surrounded by colorful abstract shapes. Logos of various partners are listed at the bottom, including MoE's Innovation Cell (Government of India), Intellectual Property India, Entrepreneurship, SIC, AICTE, and Institution's Innovation Council.

## **ENTREPRENEUR SKILLS , ATTITUDE , BEHAVIOUR DEVELOPMENT**

Institution's Innovation Council (IIC) Sacred Heart College (Autonomous) organized offline/ Hybrid mode program on “**Entrepreneur skills, attitudes , behaviour development**” on 07/03/2023 . The program was started by invoking the blessings of God imparted through a

prayer song followed by wonderful welcome address. Then the program was led by the resource person “Sr. Pragasi FMA”. She enlightened the gatherings with his vast knowledge and experience which was very helpful for the students. This program was coordinated by Dr. G. Theophil Anand, Vice-Principal of the college as Convenor and Dr. I. Niyas Ahamed, IIC-President as organizing secretary. At the end of the day students gained knowledge on Entrepreneur skills and behaviours . The session was successfully concluded by her traditional way of gratitude.



## **Talkathon- 2023 "Student Led Workshop on Innovation"**

Institution's Innovation Council (IIC) Sacred Heart College (Autonomous) organized offline/ Hybrid mode program Talkathon- 2023 "Student Led Workshop on Innovation on 17-03-2023." The program was started by invoking the blessings of God imparted through a prayer song followed by wonderful welcome address. Dr. S. A. Martin Britto D, IPR Cell – SHC was the Jury of the Day. The Host college Students presented PowerPoint presentation in the offline mode and other college students presented via Google meet. The program was coordinated by Dr. G. Theophil Anand, Vice-Principal of the college as Convenor and Dr. I. Niyas Ahamed, IIC-President as organizing secretary. It brought innovative and creative skills among the participants.



The Total no. of participants was 70. The session was successfully concluded by his traditional way of gratitude.








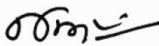
**Institution's Innovation Council**  
**Center for Innovation and Business Incubation (CIBI)**  
**Sacred Heart College (Autonomous)**  
[Accredited by NAAC (4th Cycle Under RAF) with A+ Grade [3.31/4]  
Tirupattur, Tamil Nadu, India.]









**Merit Certificate**

This is to certify that **MS.MYMOON BAGUM.S** of **DKM COLLEGE FOR WOMEN (AUTONOMOUS)** has taken part and virtually presented a topic entitled **IPR** and won the **BEST PRESENTATION AWARD** in the **Talkathon-2023 "Student Led Workshop on Innovation"** Organized by Center for Innovation and Business Incubation (CIBI) & Institution's Innovation Council, Sacred Heart College (Autonomous), Tirupattur, Tirupattur District, Tamil Nadu, India on 17-03-2023.

  
**Dr. I. Niyas Ahamed**  
Organizing Secretary

  
**Rev. Dr. G. Theophil Anand, SDB,**  
Convener

  
**Rev. Dr. D. Maria Antony Raj, SDB**  
Principal

Made for free with Certify'em

## **PITCHING CREATING IDEAS AND PROBLEM IDENTIFICATION**

Institution's Innovation Council (IIC) Sacred Heart College (Autonomous) organized offline/ Hybrid mode program on **"Pitching Creative Ideas and Problem Identification"** on 29/09/2022 . The program was started by seeking the blessings of God imparted through a prayer



song followed by wonderful welcome address. Then the program was led by the resource person “Mr. Balagopalan”. He enlightened the gatherings with his adorable knowledge and experience throughout his career which was very helpful for the students. This program was coordinated by Dr. G. Theophil Anand, Vice-Principal of the college as Convenor and Dr. I. Niyas Ahamed, IIC- President as organizing secretary. At the end of the program students gained more knowledge about creating different ideas and how to identify the problems . The session was successfully concluded by his traditional way of gratitude.

CENTRE FOR INNOVATION AND BUSINESS INCUBATION (CIBI)  
**SACRED HEART COLLEGE (Autonomous)**  
Tirupattur - 635601

Organises a Session on  
*Pitching*  
**CREATIVE IDEAS and**  
**PROBLEM IDENTIFICATION**

On  
**29<sup>th</sup>**  
SEPTEMBER  
2022  
at  
11:00 a.m. - 01:00 p.m. - Shift II  
02:30 p.m. - 04:30 p.m. - Shift I

**Resource Person**

**Mr. R. Balagopalan**  
Project Manager,  
District Industrial Centre, Tirupattur

*Partners*

MoE's INNOVATION CELL (GOVERNMENT OF INDIA)  
INTELLECTUAL PROPERTY INDIA  
EED-TN  
STUDENT INNOVATION COUNCIL (SIC)  
AJCTE  
MSE  
INSTITUTION'S INNOVATION COUNCIL

# ENTREPRENEUR AND INNOVATION AS CAREER CHOICE

Institution's Innovation Council (IIC) Sacred Heart College (Autonomous) organized offline/ Hybrid mode program on “**Entrepreneur and Innovation as Career Choice**” on 24/01/2023 . The program was started by seeking the blessings of God imparted through a prayer song followed by wonderful welcome address. Then the program was led by the resource person “Dr. S. Hariharan”. He admired the gatherings with his knowledge and innovative ideas which was very helpful for the students. This program was coordinated by Dr. G. Theophil Anand, Vice-Principal of the college as Convenor and Dr. I. Niyas Ahamed, IIC- President as organizing secretary. At the end of the program students gained entrepreneurship skills and innovative knowledge on making their career choices. The session was successfully concluded by his traditional way of gratitude.

CENTRE FOR INNOVATION AND BUSINESS INCUBATION (CIBI)  
**SACRED HEART COLLEGE (Autonomous)**  
Tirupattur - 635601

Organises a Session on  
**ENTREPRENEUR & INNOVATION**  
*as a Career Choice*

**Dr. S. Hariharan**  
M.Com., M.Phil., MBA, Ph.D.,  
Assistant Professor,  
Department of Commerce (S-I)  
Sacred Heart College (Autonomous),  
Tirupattur - 635601

at  
11:00 a.m. - 01:00 p.m. - Shift II  
02:30 p.m. - 04:30 p.m. - Shift I  
Venue: Mother Teresa Hall

On  
**24<sup>th</sup>**  
January 2023

Partners

MoE's INNOVATION CELL (GOVERNMENT OF INDIA)  
INTELLECTUAL PROPERTY INDIA  
EBC-PI  
SIC  
ACTE  
MME  
INSTITUTION'S INNOVATION COUNCIL

## World Intellectual Property Day Webinar on “AWARENESS ON INTELLECTUAL PROPERTY RIGHTS

IPR Cell & Institution's Innovation Council (IIC) Sacred Heart College (Autonomous), Jointly organized World Intellectual Property Day Webinar on “AWARENESS ON INTELLECTUAL PROPERTY RIGHTS on 26-04-2023. The program was started by invoking the blessings of God imparted by Mrs. K. Sheela, Council Member, IIC-SHC through a prayer song. Dr. I. Niyas Ahamed, President of IIC-SHC, addressed the gathering by his wonderful welcome address. Dr. S. A. Martin Britto Dhas, Nodal Officer- IPR Cell – SHC introduced the guest speaker, Dr. A. Jeffry Andrew, Assistant Professor, School of Excellence in Law, The Tamilnadu Dr. Ambedkar Law University, Chennai, Tamil Nadu. Dr. A. Jeffry Andrew gave an inspiring talk on “**AWARENESS ON INTELLECTUAL PROPERTY RIGHTS - NEED OF THE HOUR**” which varieties each and every participant increase their knowledge by his extreme talk and interaction among the participants. The Total no. of participants was 100. The session was successfully concluded by Dr. A. Prabu, Member, IPR-SHC by his traditional way of gratitude.



← → ↻ https://meet.google.com/edd-eeoz-pvx ☆ 🔒 📄 🗑️ 📁 ☰

**J** Jeffrey Andrew is presenting

Dr. S.A. Martin Britto Dhass Assistant Profess...

Jeffrey Andrew

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Tamil mani M

Ammu Guna

DEEPIKA S

Niyas Ahamed

KRISHNAKUMAR A

Jayapriya V

90 others

You

10:10 AM | edd-eeoz-pvx

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29°C Partly sunny Search 10:10 AM 26-04-2023

**Dr. I. Niyas Ahamed**  
 President  
 Institution's Innovation Council (IIC)  
 Sacred Heart College (Autonomous)  
 Tirupattur – 635 601

Principal

**Principal**  
**Sacred Heart College (Autonomous)**  
**Tirupattur-635 601, Tirupattur - Dist.**