



**CERTIFICATE**

**This is to certify that**

**St. Mary's College, Manarcaud,, Kottayam**

**has established Institution Innovation Council(IIC) as per the norms of Innovation Cell,  
Ministry of Education, Govt. of India during IIC Calendar year 2021-22**

**Prof. Anil D. Sahasrabudhe**  
**Chairman, AICTE**

**Dr. Abhay Jere**  
**CIO, MHRD,**  
**Innovation Cell**

Date : 06-12-2021

Certificate No : 5692



Government of India  
Ministry of Commerce and Industry  
Department for Promotion of Industry and Internal Trade  
Office of the Controller General of Patents, Designs and Trade Marks

## CERTIFICATE OF APPRECIATION

*Presented to*

**ST. MARY'S COLLEGE, MANARCAUD**

*In recognition of active participation in the **National Intellectual Property Awareness Mission (NIPAM)** launched by the Government of India on the occasion of the 75th anniversary of independence under the banner "Azadi Ka Amrit Mahotsav" to create widespread awareness on Intellectual Property Rights (IPR). The exceptional contribution in successfully organizing the awareness programme on **March 29, 2022** in association with **Intellectual Property Office, Chennai** by providing your valuable time and support is highly appreciated.*

*Solicit your continued support for outreach of IPR far and wide.*

**Date: March 29, 2022**



  
**(RAJENDRA RATNOO, IAS)**  
CONTROLLER GENERAL OF  
PATENTS, DESIGNS & TRADE MARKS



Government of India  
Ministry of Commerce and Industry  
Department for Promotion of Industry and Internal Trade  
Office of the Controller General of Patents, Designs and Trade Marks

## CERTIFICATE

This is to certify that, **MR. TONY FRANCIS** of **ST. MARY'S COLLEGE, MANARCAUD** co-ordinated in conducting the Intellectual Property Awareness program under

**NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION**  
on March 29,2022

**Organized by**  
**Intellectual Property Office, India**

**Date: March 29,2022**



  
**(RAJENDRA RATNOO, IAS)**  
CONTROLLER GENERAL OF  
PATENTS, DESIGNS & TRADE MARKS

**St. Mary's College, Manrcaud**  
*Webinar on*  
**Awareness Programme on**  
**Intellectual Property Rights**  
*Organized by*  
**Institution's Innovation Council**  
**&**  
**Internal Quality Assurance Cell (IQAC)**  
29 March 2022

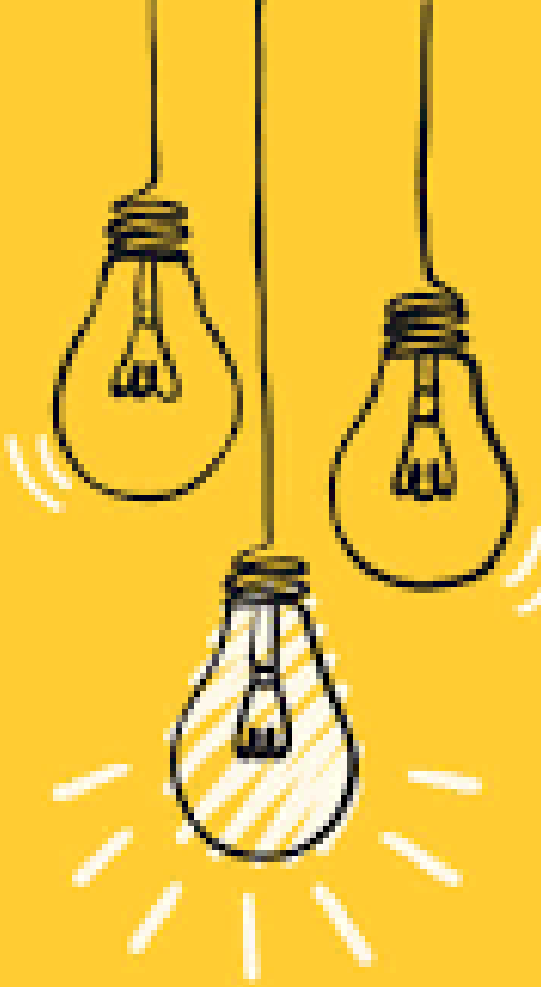
**Welcome Address: Tony Francis, IIC President & Coordinator**

**Presidential Address: - Dr. Punnen Kurian, Principal**

**Technical Session: Mrs. Anjana Haridas,**

Examiner of Patents & Design, IPO, Chennai

**Vote of Thanks- Mr. Saneju M Salu, IIC Convener**



# YOUNG INNOVATORS PROGRAMME (YIP)



**8TH FEBRUARY 2022**

**12:30 PM**

**Platform- Zoom**

**KINDLY JOIN THE MEETING THROUGH THE BELOW LINK;**

**[HTTPS://US02WEB.ZOOM.US/MEETING/REGISTER/TZALF  
-MSQJWUG9YBL-PDX43SMJ8PNV0VMT3P](https://us02web.zoom.us/join/92037820531)**

**K-DISC**

***Kerala Development and Innovation Strategic Council***



**ST MARY'S COLLEGE MANARCAUD**

**NAAC Accredited with B Grade  
(Affiliated to Mahatma Gandhi University)**



# National Science Day -2022

## Programme Chart

Introduction on Science day – **Bhuvana R Pai**

*Second Year BSc Chemistry*

Welcome:- **Aleena Aby Abraham**

*Chemistry Association Secretary*

Presidential Address- **Dr. Punnen Kurian,**

*Principal, St. Mary's College, Manarcaud*

Webinar- Silicon Solar Cell Technology

**Dr. Saji Salkalachen**

Brief Profile – Saji Salkalachen

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Saji Salkalachen obtained a doctoral degree in the field of compound thin film solar cells at National Physical Laboratory, New Delhi. Further, he completed two postdoctoral fellowship assignments – one at the University of Hull, England and the other, at the Western University, Canada - in thin-film solar cells, high-temperature superconducting thin films, and amorphous silicon solar cells. He then worked for Bharat Heavy Electricals Limited (BHEL) in their Electronics Division, Bangalore in the semiconductor product group. His professional experience includes product engineering and development, manufacture of silicon power semiconductor devices and crystalline silicon solar cells and has co-authored several research publications and patents. His team received the BHEL Excel Award for patenting, publication, and industrial application of silicon nitride step-layer in silicon solar cells as an efficient anti-reflection coating. After superannuating as General Manager, he also served the company as a consultant for development and expansion programs in the field of Photovoltaics.

He is a resource faculty for the Proficiency Courses on *Photovoltaic Science and Technology* and *Renewable Energy Sources* at the Centre for Continuing Education in Indian Institute of Science, Bangalore, and participates in training programs on solar photovoltaics conducted for engineers, students, professionals, and entrepreneurs.

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Vote of Thanks- **Mr. Tony Francis**

*Assistant Professor*

*Department of Chemistry, St. Mary's College, Manarcaud*



# ST. MARY'S COLLEGE, MANARCAUD



*Webinar on*  
**Awareness Programme on**  
**INTELLECTUAL PROPERTY RIGHTS**  
*Organized by*

**Institution's Innovation Council (IIC)**  
**&**  
**Internal Quality Assurance Cell (IQAC)**

Certificate will be  
provided  
for the participants



**29**  
**MARCH**  
**2022**



**10.30 TO 11.30 AM**

## Organizing Committee

**Dr. Punnen Kurian**  
Principal

**Mrs. Philip Marina Philip**  
IQAC Coordinator

**Mr. Tony Francis**  
IIC President & Coordinator

**Mr. Saneju M Salu**  
IIC Convener

**Dr. Shiby Susan Kuriakose**  
IPR Activity Coordinator

## Resource Person



**Mrs. Anjana Haridas**  
Examiner of Patents & Designs  
IPO, Chennai



Anjana Haridas is presenting



# When should an application for a Patent be filed?

- Earliest possible date and should not be delayed.
- First file your patent application – later publish, use or share.
- Do not wait for until the invention is fully developed for commercial working before applying for patent.

Anjana Haridas	saneej salu	krishna prasad
Athira . s	Athulya K S	Sona Mariam Sabu
Greeshma Joseph	ATHULYA K SUDHA...	Avanthika U
Anil	140 others	You

10:56 AM | IPR





# St. Mary's College, Manarcaud

Postgraduate Department  
of Chemistry



*Celebrates*

**National Science Day -2022**

**Webinar**

*Silicon Solar Cell Technology*

**Resource Person**

**Dr.Saji Salkalachen**

Resource Faculty

Centre for Continuing Education

Indian Institute of Science(IISc), Bangalore

**Date :- 25/02/2022**

**Time:- 06:30 PM**



**Google Meet**

**Dr. Punnen Kurian**  
Principal

**Dr. Shiby Susan Kuriakose**  
HOD, Chemistry

**Mrs. Philip Marina Philip**  
Coordinator

**Mr. Tony Francis**  
President , IIC

# ST. MARY'S COLLEGE, MANARCAUD



Institution's Innovation Council (IIC)

## IMPACT LECTURE SERIES-1

**15 JULY 2022**

### Session 1

#### Innovation & You



**Mr. Sarju S**  
IEDC Nodel Officer  
SJ CET, Pala

**2:15 PM to 03:45 PM**

### Session 2

#### Challenges and Opportunities for Agro-startups in Kerala



**Mr. Baiju Nedumkeriyil**  
Chairman, Agropark

**6:00 PM to 7:30 PM**



Google Meet

**e-Certificate will be provided  
for the participants**

**Dr. Punnen Kurian**  
Principal

**Mr. Saneju M Salu**  
IIC Convener

**Ms. Jilu Jose**  
Innovation Activity  
Coordinator

**Dr. Shiby Susan Kuriakose**  
IPR Activity Coordinator

**Mr. Sherry Mathews**  
Internship Activity  
Coordinator









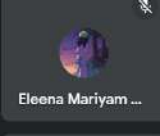


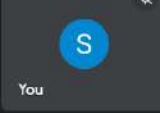
**Mr. Tony Francis**  
IIC President & Coordinator

**Ms. Susan Bincy Andrews**  
Start up Activity  
Coordinator

# Innovation & You

Prof. Sarju S  
Nodal Officer, SJ CET Startup Bootcamp (St. Joseph's IEDC)



 Sarju S	 KARTHIKA PRAD...	 Sidharth Subash
 Adhithya Salimon	 Sanjaymon Ej	 St.Mary's College
 Karthika P R	 Haripriya K.A	 Eleena Mariyam ...
 Abraham Zachari...	 92 others	 You



REC



agropark piravom

 Athulinho 4	 sherry mathews	 Aswathy
 Sidharth Subash	 Alen Mathew	 HARIPRIYA PRAB...
 Joel M Tito	 Vyshnavi Vinod	 Sandra Suresh
 Aswini Reeba Be...	 58 others	 You

6:39 PM | Impact Lecture Series

Microphone icon, Chat icon, Screen share icon, Hand raise icon, Add icon, More options icon, End call icon

Info icon, Participants icon (79), Messages icon, Screen share icon, Lock icon

# ST. MARY'S COLLEGE, MANARCAUD



Institution's Innovation Council (IIC)

## IMPACT LECTURE SERIES-2

27 JULY 2022

### Lecture 1

**Innovation, Entrepreneurship  
& Research Opportunities for  
Budding Graduates**



**Dr. Chacko Preno Koshy**  
Associate Professor, Mechanical  
Engineering, Saintgits College of  
Engineering

**02:15 PM to 03:45 PM**

### Lecture 2

**Inspiring Young Minds;  
A Start-up Approach**



**Mr. Sherin Sam Jose**  
HOD, Mechanical Engineering  
Automobile, Amal Jyothi College of  
Engineering

**05:00 PM to 6:30 PM**



**e-Certificate will be provided  
for the participants**

**Dr. Punnen Kurian**  
Principal

**Mr. Tony Francis**

IIC President & Coordinator

**Mr. Saneju M Salu**

IIC Convener

**Dr. Shiby Susan Kuriakose**

IPR Activity Coordinator

**Ms. Susan Bincy Andrews**

Start up Activity  
Coordinator

**Ms. Jilu Jose**  
Innovation Activity  
Coordinator

**Mr. Sherry Mathews**  
Internship Activity  
Coordinator





Dr. CHACKO PRENO KOSHY is presenting

**DISCOVERY and INVENTION**  
**(Do not confuse yourself with Design)**

- *Discovery* is getting the first sight of, or the first knowledge of something, as when Columbus discovered America.
- *Invention*: The creative act whereby an idea is conceived
- Design may or may not involve *invention*.
- Some designs are truly inventive, but most are not.
- *Innovation*: The process by which an invention or idea is brought into successful practice and is utilized by the economy
- *Diffusion*: The successive and widespread initiation of

Dr. CHACKO PRENO KOSHY (Presentation)






REC



 Midhun Ghosh	 KARTHIKA PRAD...	 Arya K s
 NAKSHATHRA K S	 Ansu Ann Varghe...	 Sohan Sujith
 Bhavana B Nath	 Haripriya K.A	 Edwin
 Minukutty N S	 47 others	 You

6:11 PM | Impact Lecture Series-2

