

## A FRAMEWORK FOR INTEROPERABLE BLOCKCHAINS TO STREAMLINE SUPPLY CHAIN COMMUNICATIONS

Under

Global Initiative of Academic Networks (GIAN)  
National Institute of Technology, Puducherry  
Thiruvettakudy, Karaikal – 609609, India

### REGISTRATION FORM

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#### RECOMMENDATION OF THE SPONSORING AUTHORITY

The application of Dr. / Mr. / Mrs. / Ms  
\_\_\_\_\_ working  
as \_\_\_\_\_

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to attend the course on “A Framework for  
Interoperable Blockchains to Streamline Supply Chain  
Communications” being organized by Department of  
Electronics and Communication Engineering, NIT  
Puducherry.

Date: \_\_\_\_\_  
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### Registration Fee

Participants from Abroad : US \$600  
Industry/ Research Organizations : Rs. 6000/-  
Faculty Members / Researchers: Rs.2000/-  
Students (pursuing PhD/Masters/Bachelors courses): Rs  
1000/-  
No registration fee for participants from NIT Puducherry.  
\*\*The Registration Fee includes all instructional materials,  
computer use for tutorials, internet facility.  
\*\*If any body need Accommodation and food for 10 days  
in Hostels then in addition to the registration fee pay  
Rs. 3000.00 extra  
To register or for any queries please send an email to  
[malaya.nath@nitpy.ac.in](mailto:malaya.nath@nitpy.ac.in) or [malaya.nath@gmail.com](mailto:malaya.nath@gmail.com)

#### Mode of Payment : *Electronic Fund Transfer only*

The payment details with Registration form should  
be sent to the following address by 31<sup>st</sup> **March, 2021**

<b>Bank Name</b>	<b>State Bank of India</b>
<b>Bank Address</b>	NITPY Branch, Karaikal-609609
<b>Account Name</b>	Scholarships& Deposits Account
<b>Account No.</b>	32912184337
<b>IFSC code</b>	SBIN0001418

\*\*Register for the course online at  
<http://www.gian.iitkgp.ac.in/>

**Dr Malaya Kumar Nath, Dr. Aniruddha Kanhe**  
**Host Faculty-** GIAN course on A FRAMEWORK FOR  
INTEROPERABLE BLOCKCHAINS TO STREAMLINE SUPPLY  
CHAIN COMMUNICATIONS,  
NIT PUDUCHERRY, Karaikal-609 609, India.  
Phone: 07598198022  
**Email:** [malaya.nath@gmail.com](mailto:malaya.nath@gmail.com),  
[kanheaniruddha@gmail.com](mailto:kanheaniruddha@gmail.com)

## A FRAMEWORK FOR INTEROPERABLE BLOCKCHAIN TO STREAMLINE SUPPLY CHAIN COMMUNICATIONS



Organized by  
Department of Electronics and  
Communication Engineering  
National Institute of Technology Puducherry  
Karaikal-609 609  
India

APRIL 19 – APRIL 23, 2021

**Venue**  
**Science Block, NIT Puducherry**

For more details visit: [www.nitpy.ac.in](http://www.nitpy.ac.in)

### GIAN – An overview

Global Initiative of Academic Networks (GIAN) is a new program in Higher Education approved by Govt. of India to involve the internationally acclaimed talent pool of scientists and entrepreneurs, to encourage their engagement with the institutes of Higher Education in India which will lead to augmentation of the country's existing academic resources, accelerate the pace of quality reform, and elevate India's scientific and technological capacity to global excellence.

This has a particular aim to garner the best international experience into our systems of education that will enable interaction of students and faculty with the best academic and industry experts from all over the world and also to share their experiences and expertise.

### About NIT Puducherry

National Institute of Technology Puducherry (NITPy) nestled in the scenes of Karaikal, a coastal town in the basin of river Kaveri. It was started by MHRD, Govt. of India in the year 2010. Notwithstanding the tender age, NITPy is committed to produce effective and responsible scientists and engineers who have the ability to serve the nation on its prosperous journey. Faculties and students are having experience in modern and up-to-date scientific developments. NITPy also enjoys the status "An Institute of National Importance" given by MHRD, Govt. of India, New Delhi.

The institute is situated in the city Karaikal which can be reached by Air through Chennai. Karaikal is the nearest railway station to NIT Puducherry. The journey (by road) from Puducherry to Karaikal may take approx. 3 Hrs.

### Overview of Course

Over the past several years blockchain technology has had a profound impact on the way we conduct business and the way we exchange or transfer business assets in supply chain industry. Interoperability can be described as the ability to transfer value and assets across distinct blockchain ecosystems. This is especially important in supply chain use cases of blockchain where there are number of different organizations or suppliers involved. Interoperability is becoming important for businesses because different businesses use different blockchain platforms however they need to communicate with each other seamlessly .

<b>Modules</b>	1: INTRODUCTION TO SUPPLY CHAIN 2: INTRODUCTION TO BLOCKCHAIN TECHNOLOGY 3: CONCEPTS OF BLOCKCHAIN INTEROPERABILITY 4: BLOCKCHAIN INTEROPERABILITY WITH IOT 5: INTEROPERABLE BLOCKCHAIN DESIGNS PRINCIPLES 6: BLOCKCHAIN RELIABILITY & SMART CONTRACTS 7: BLOCKCHAIN INTEROPERABILITY PLATFORMS 8: AUTONOMOUS GATEWAY NODES 9. BLOCKCHAIN INTEROPERABILITY – SUPPLY CHAIN CASE STUDIES
<b>Who can attend ...</b>	Faculties, Students (pursuing PhD/Masters/Bachelors courses): members involved in research on blockchain.  MSc, PhD, Post Doc research students with interests in blockchain.
<b>Contact Details</b>	<b>1) Local Coordinator</b> Name : Prof. (Dr. ) G. Aghila Contact : 9486143910 Email : aghilla@gmail.com  <b>2) Host Faculty</b> Name: Dr. Malaya Kumar Nath, Dr. Aniruddha Kanhe Contact : 9488947184, 8056418992 Email : malaya.nath@nitpy.ac.in, aniruddhakanhe@nitpy.ac.in  <b>3) Institute Address</b> National Institute of Technology Puducherry Thiruvettakudy Karaikal—609 609, India Phone No.: +91-4368-265235 Tele-Fax No.: +91-4368-265230 Website: <a href="http://www.nitpy.ac.in">www.nitpy.ac.in</a>

### The Faculty

**Professor Vidyasagar Potdar** a multi-award winning researcher and the Director of the Blockchain R&D Lab at Curtin University in Perth, Australia. He has secured research funding over \$2million dollars by building strong industry partnerships. He has an outstanding publications track record with over 10 on-time PhD completions. He is extremely media active.

#### KEY ACHIEVEMENTS:

1. He has worked with several industry and government departments including Natsoft Corporation, Main Roads, Dept. of Transport, Statoil Hydro (Norway), Fleetwood Corp, Chartered Accountants AusNZ, Scope Systems, WA Country Health Services, Food Agility CRC, and Future Battery Industries CRC.. He is a winner of 8 research and commercialization awards .
2. Internationally recognized scholar in the area of Smart Grids & Block chain has been demonstrated with his high H-index (Scopus 22, Google Scholar 29) and high citations (Scopus 1705, Google Scholar 3352). Recently he has 6 A and 2 A\* publications .Guest Editor of the top A\* journals like IEEE Transactions on Industrial Informatics (IF 7.377). Successful track record as a principal supervisor, with 10 on time PhDs completions and 1 Masters by Research .
3. Two of his PhDs received chancellor's commendation award for their research on Smart Grids. 2019: Emerald Literati Award (International award for an outstanding paper published by Emerald in 2018) .
4. 60+ media appearances that resulting in \$480,000 in equivalent advertising dollars. He provided leadership in building the Joint PhD program with Indian Institute of Technologies.

<https://scholar.google.co.in/citations?user=GfKkFnkAAAAJ&hl=en>

**Dr. Malaya Kumar Nath** is an Assistant Professor in the Department of ECE, National Institute of Technology Puducherry. His research areas of interest include Image processing, pattern recognition, deep learning.

**Dr. Aniruddha Kanhe** is an Assistant Professor in the Department of ECE, National Institute of Technology Puducherry. His research areas of VLSI , Speech processing, audio watermarking, and audio steganography .