

Christ College, Irinjalakuda is one of the
owned Educational Institutions in Kerala, India
with a time-honoured tradition, affiliated to Calicut
University and reaccredited by NAAC with A grade.

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President: Rev. Fr. Jacob Njerinjampilly CMI, Manager

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Vice chair persons: Dr. K. Y. Shaju (Vice principal
& HOD Physics)

Fr. Joy P T CMI (Vice principal)

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Convener: Mr. Edwin Jose

Executive Committee: Dr. P. D. Shaju

Dr. Sudheer Sebastian K.

Dr. Xavier Joseph

Platform: The lecture will be delivered using the
Google Meet or Zoom application. Link will be sent
to the registered participant by e-mail.

Imagination is the highest
form of research
Albert Einstein

For Registration:

[Click Here](#)



Date

19th September
2020



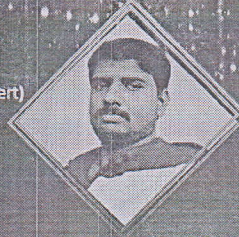
Time

9.30 - 10.30 am

Speaker:

Dr. Jobin Varghese

Scientist (Materials & Technology Expert)
Fraunhofer IKTS
Dresden-01277
Germany



 **CHRIST COLLEGE**
AUTONOMOUS IRINJALAKUDA, KERALA

Department of Physics
Diamond Jubilee Webinar Series

**INTERNATIONAL
WEBINAR**

on

WAY TO

6th

Generation

Communication

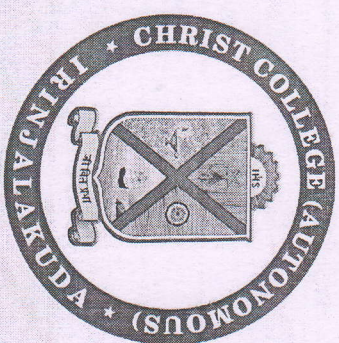
Devices

ABSTRACT

The 5G telecommunication devices are the way to global standards with existing HTCC (fabrication temperature, > 1000 °C) (High-Temperature Co-fired Ceramics) and LTCC (fabrication temperature: 800-960 °C) (Low-Temperature Co-fired Ceramics) packaging technology. Herein, we direct the future ceramic packaging strategies for the 2030s. The 6th generation electroceramic packaging ideas are on ULTCC (Ultra Low Temperature Co-Fired Ceramics) technology by offering the fabrication temperature (fabrication temperature < 700 °C) beyond the HTCC and LTCC boundary. Hence, the large number of research initiatives are looking from worldwide to explore the ULTCC for the future generations, to reduce the fabrication cost, reduce the CO₂ emission, increase electroceramic recycling capabilities and avoid the hazardous materials used in electronic devices.

KEYWORDS

HTCC ; LTCC ; ULTCC ; Glass-ceramics ; Electroceramics ; Ceramic Packaging



Department of Physics
Christ College (Autonomous)
Irinjalakuda

Certificate of Participation

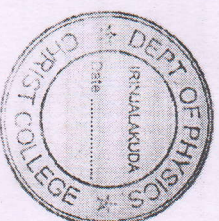
Dr Zar Zar Myint Aung

Physics Department, Lashio University

attended the Online International Webinar on the topic "Way to 6th Generation Communication Devices" organised by the Department of Physics, Christ College (Autonomous) Irinjalakuda on 19-09-2020 as part of the Diamond Jubilee Webinar Series.

A handwritten signature in black ink, appearing to read "Dr. K Y Shaju".

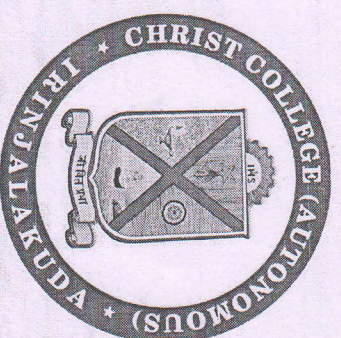
Dr. K Y Shaju
Vice Principal
and HOD



A handwritten signature in black ink, appearing to read "Rev. Fr. Dr. Jolly Andrews CMI".

Rev. Fr. Dr. Jolly Andrews CMI
Principal

Department of Physics
Christ College (Autonomous)
Irinjalakuda



Certificate of Participation

Chacko Shaju

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attended the Online International Webinar on the topic “Way to 6th Generation Communication Devices” organised by the Department of Physics, Christ College (Autonomous) Irinjalakuda on 19-09-2020 as part of the Diamond Jubilee Webinar Series.

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attended the Online International Webinar on the topic **“Way to 6th Generation Communication Devices”** organised by the Department of Physics, Christ College (Autonomous) Irinjalakuda on 19-09-2020 as part of the **Diamond Jubilee Webinar Series.**

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Principal