


St. Mary's College (Autonomous)
Department of Physics
NATIONAL WEBINAR ON MICROPROCESSOR AND MICROCONTROLLER
FOR COLLEGE STUDENTS – 08.12.2021 & 09.12.2021

• **Invitation**

<p style="text-align: center;">TWO DAYS NATIONAL WEBINAR ON MICROPROCESSOR AND MICROCONTROLLER FOR COLLEGE STUDENTS</p> <p style="text-align: center;">08th December 2021 & 09th December 2021</p> <p style="text-align: center;">UNDER STAR SCHEME 2021 - 2022</p> <p style="text-align: center;">Sponsored by</p> <p style="text-align: center;"> DEPARTMENT OF BIOTECHNOLOGY Ministry of Science & Technology, Government of India</p> <p style="text-align: center;">Organized by MARIAN STAR CENTRE Department of Physics St. Mary's College (Autonomous) (Re-accredited by NAAC with 'A+' Grade) Thoothukudi - 628 001</p> <p>Resource Person: Dr. G. Kumar Sathian Former Professor & Head Department of Physics & Academic Dean, Marian Christian College, Tambaram, Chennai. Proprietor, FLORA/NA, Chennai. (Company Manufacturing Educational Electronic Trainer kits)</p> <p>Session 1: 8085 Microprocessor Addressing Modes & Programming Techniques Date: 08.12.2021 Time: 2:30 pm to 4:00 p.m.</p> <p>Session 2: Embedded Systems with Microcontroller 8051 & its Applications Leading to Robotics & AI Date: 09.12.2021 Time: 2:30 pm to 4:00 p.m.</p> <p style="text-align: center;">Online mode: Zoom Platform</p>	<p style="text-align: center;">ORGANIZING COMMITTEE</p> <p>Patron Rev. Sr. Fiera Mary Secretary, St. Mary's College (Autonomous), Thoothukudi</p> <p>Chairman Dr. Sr. A. S. J. Lucia Rose Principal, St. Mary's College (Autonomous), Thoothukudi</p> <p>Convener Dr. Sr. Jessie Fernando Head and Associate Professor Department of Physics, St. Mary's College (Autonomous), Thoothukudi</p> <p>Programme Coordinator Dr. Sr. Arockia Jenecius Alphonse Assistant Professor of Botany, St. Mary's College (Autonomous), Thoothukudi</p> <p>Organising Secretary Dr. M. Sheeba Assistant Professor of Physics, St. Mary's College (Autonomous), Thoothukudi</p> <p>Executive Members Dr. S. Eucharista Immaculate Sylvia, Associate Professor of Physics Ms. A. Lucas Reaceline, Associate Professor of Physics Ms. P. Dhanalakshmi, Assistant Professor of Physics Ms. A. Valentina, Assistant Professor of Physics</p> <p style="text-align: right;">For any queries Mail id: stmph2012@gmail.com smcstardt2021@gmail.com</p>
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• **Certificate**

**NATIONAL WEBINAR ON MICROPROCESSOR AND MICROCONTROLLER
FOR COLLEGE STUDENTS**

Organized by
Marian Star Centre
Department of Physics
St. Mary's College (Autonomous),
Re-accredited by NAAC with 'A+' Grade
Thoothukudi - 628001.

Sponsored by
Department of Biotechnology
Ministry of Science & Technology,
Government of India

CERTIFICATE OF PARTICIPATION

Ms. V. KAVYA
III B. Sc Physics
St. Mary's College (Autonomous), Thoothukudi-1

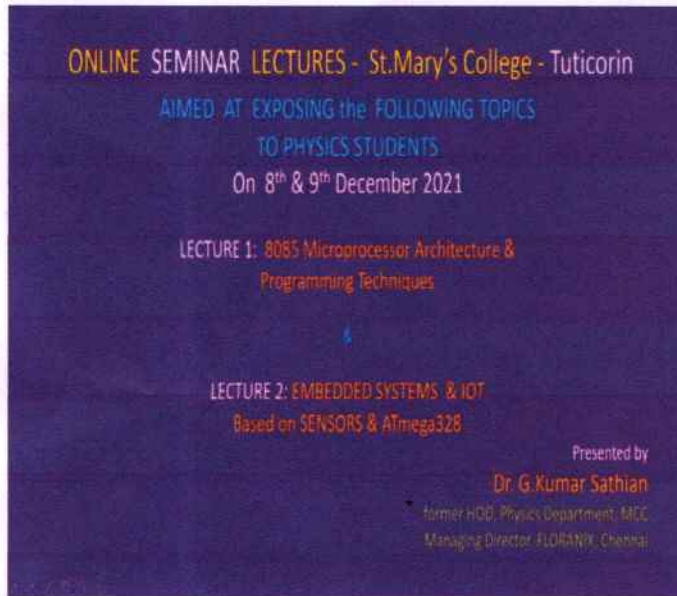
*has successfully completed a NATIONAL WEBINAR ON MICROPROCESSOR
AND MICROCONTROLLER FOR COLLEGE STUDENTS from 08.12.2021 &
09.12.2021 by the Department of Physics, St. Mary's college
(Autonomous), Thoothukudi, Tamilnadu, India.*

Arockia Jenecius Alphonse
Dr. Sr. A. Arockia Jenecius Alphonse
DBT - Overall Coordinator

Jessie Fernando
Dr. Sr. Jessie Fernando
Convener

Lucia Rose
Dr. Sr. A. S. J. Lucia Rose
Principal

- **Screenshots**



Report

The two days National Webinar on “Microprocessor and Microcontroller for College students” organised by the Department of Physics, Marian Star Centre, St. Mary’s College (Autonomous), Thoothukudi, sponsored by Department of Biotechnology, Government of India, New Delhi was held on 8th and 9th November 2021 at 2.30 pm through zoom platform.

Dr. G. Kumar Sathiyam, Former Professor, Head Department of Physics & Academic Dean, Madras Christian College, Tambaram, Chennai and Proprietor, Floranix, Chennai was the resource person on both days.

On 08.12.2021, the session 1 started with a prayer followed by welcome address and introducing the resource person by Dr.Sr. Jessie Fernando, HOD and Associate Professor of Physics, St. Mary's College (Autonomous), Thoothukudi. The resource person Dr.G. Kumar Sathiyam spoke on the topic "8085 Microprocessor Addressing Modes & Programming Techniques". He explained briefly about microprocessor and its programming. He also discussed about data bus, 8085 bus structure, 8085 internal microprocessor architecture, Register, Addressing Modes, Programming Techniques, Interfacing devices, I/O decoding using 8255 PPI chip. He gave some assignments to the participants. Ms.Rachel Rose Megra of III B.Sc., Physics thanked the resource person. Feedback form was posted for the participants and the session came to an end. Around 190 participants took part in the programme.

On 09.12.2021, the session 2 started with a prayer by Dr.Sr. Jessie Fernando, HOD and Associate Professor of Physics, St. Mary's College (Autonomous), Thoothukudi. Dr.G. Kumar Sathiyam spoke on the topic "Embedded System with Microcontroller ATmega 328 and its Applications leading to Robotics and IOT". He began the lecture with Automation and sensors, Embedded System microcontroller, ATmega 328 houses, Need for PWM, FLODUINO Board etc. He also pointed out the importance and application of embedded microcontroller, DC Motor driver, RT controlled Robot car, Social environmental pollution control with IOT, IOT the wireless technology and the protocol. Then the session was open for doubt clarification. The feedback cum attendance form was posted in the chat box. The vote of thanks was delivered by Ms. Sheela Varsha, II B.Sc., Physics followed by photo session with the resource person and the participants. Around 220 participants took part in the programme. The program came to an end with college anthem.

Youtube link: <https://youtu.be/um168eXIDWQ>

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