



## DEPARTMENT OF PHYSICS

SCHOOL OF PHYSICAL SCIENCES

### St. JOSEPH'S COLLEGE (Autonomous)

Special Heritage Status Institution - UGC, Accredited at 'A' Grade (3<sup>rd</sup> Cycle) by NAAC  
College with Potential for Excellence by UGC, DST-FIST Sponsored & DBT - STAR College

TIRUCHIRAPPALLI - 620 002

#### WORKSHOP ON ADVANCED PHYSICS EXPERIMENTS FOR COLLEGE TEACHERS

December 18-19, 2015

##### Inaugural Function: December 18, 2015 Friday

- Registration : 8:30 - 9:00 am
- Inaugural Session : 9:00 - 9:30 am
- Welcome Address : **Dr. R. Victor Williams**  
Associate Professor & Head, Dept. of Physics  
St. Joseph's College (Autonomous)
- Inaugural Address: **Rev. Dr. F. Andrew SJ**  
Principal, St. Joseph's College (Autonomous)  
Tiruchirappalli - 620 002.

##### Valedictory Function: December 19, 2015 Saturday

- Feed Back Session: 4:00 pm
- Welcome Address : **Dr. I. Arul Rayappan**  
Associate Professor of Physics  
St. Joseph's College (Autonomous)
- Valedictory Address: **Rev. Dr. S. Sebastian SJ**  
Secretary, St. Joseph's College (Autonomous)  
Tiruchirappalli - 620 002.
- Vote of Thanks : **Dr. N. Lawrence**  
Associate Professor of Physics  
St. Joseph's College (Autonomous)

*All Are Invited*

**WORKSHOP ON  
ADVANCED PHYSICS  
EXPERIMENTS  
FOR COLLEGE TEACHERS**

**18<sup>th</sup> & 19<sup>th</sup> December 2015**

**REGISTRATION FORM**

Name :

Designation :

Institution :

Address for  
Communication :

Email :

Telephone/Mobile :

Amount paid : ₹

D.D. No. :

Name of the Bank :

Date :

*(Signature)*

(Photostat copies of this form can be used)

**Organising Committee**

Chief Patron : **Rev. Dr. S. John Britto SJ**  
Rector  
Patron : **Rev. Dr. S. Sebastian SJ**  
Secretary  
Chairman : **Rev. Dr. F. Andrew SJ**  
Principal  
Convenor : **Dr. R. Victor Williams**  
Head, Department of Physics

**For further details contact**

**Dr. N. Lawrence**  
Organising Secretary  
Associate Professor of Physics,  
St. Joseph's College (Autonomous)  
Tiruchirappalli -620 002  
**Tel: +91-431-4226438**  
**Mob: +91-94863-27821**  
**Email: nlawdines@yahoo.co.in**

**Faculty Members, Department of Physics**

Dr. R. Victor Williams, Head  
Prof. S. Antony Raj  
Dr. I. Arul Rayappan  
Prof. P. Rajendran  
Prof. N. Ravi  
Dr. S. Alfred Cecil Raj  
Dr. N. Lawrence  
Dr. I. Johnson  
Prof. A. Patrick Prabhu  
Prof. B. Kanickairaj  
Prof. J. Charles  
Prof. S. Dominique  
Prof. P. Christuraj  
Prof. A. Maggie Dayana  
Dr. A. Leo Rajesh  
Dr. M.M. Armstrong Arasu  
Dr. A. J. Clement Lourduraj  
Dr. M. Antony Arockiaraj  
Dr. M. Lawrence  
Prof. Joseph James Irudayaraj  
Prof. G. Samuel  
Prof. S. Lourduraj  
Prof. F. Celin Hemalatha  
Prof. M. Francis  
Prof. P. Adal Arasu  
Prof. Ranjith Rajasekar  
Dr. M. Antony  
Prof. M. Sankar  
Prof. T. Deivanai  
Prof. L. Saranya  
Dr. S. Wilfred Prasanna

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*Organized by*

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**TIRUCHIRAPPALLI - 620 002, INDIA**

[www.sjctni.edu](http://www.sjctni.edu)

### ABOUT THE INSTITUTION

St. Joseph's College is an affiliated First Grade College of the Bharathidasan University. It was established by the Fathers of Society of Jesus in 1844 and UGC crowned the college with the rare distinction of the Heritage Status. The college celebrated its centenary in 1944, sesquicentenary in 1995 and acquired the Five Star Status, awarded by NAAC in 2000. The college was conferred the prestigious status of College with Potential for Excellence (CPE) by UGC in 2004 & 2012, Reaccredited by NAAC with 'A+' Grade in 2006 and Accredited again by NAAC at 'A' Grade in 2012.

### PHYSICS DEPARTMENT

This century-old Department of Physics started B.A Physics (1881), B.Sc (Hons.) Physics (1911), B.Sc Physics (1930), M.Sc Physics (1961), Ph.D. (1971) and M.Phil (1977). Other than its own evolution it had given birth to two departments, Computer Science (1983) and Electronics (1993). The quality of the education imparted in this department can be understood from the message of **Sir C.V. Raman**, the Indian Nobel Laureate on the occasion of college Centenary Celebration 1944, "The St. Joseph's College, Trichinopoly, has played a great part in the development of higher education in Southern India. Many of its former alumni who have taken the Honours course in Physics from that College have subsequently been research students in my laboratory and achieved conspicuous success. They now hold distinguished positions in various parts of India". It is no wonder that our former

President His Excellency Late **Dr. APJ Abdul Kalam** is one of our proud alumnus.

The department is blended with its tradition and growth in science and technology upto date in various dimensions. The department is constantly developing with the continuous support of the management and the funding of UGC, DST-FIST and CSIR. The department faculties are operating minor/major research projects with the funding of UGC, CSIR and DRDO. The department had established National and International collaboration in many fields of research in recent years and organises symposia, conferences and workshops periodically at International and National level to ignite the scholars with scientific spirit.

### ABOUT THE WORKSHOP

St. Joseph's College (Autonomous), during the 173 years of its existence, has constantly and consistently uphold the Jesuit principle of the magis. This Latin word magis means to do more. The century old Department of Physics had taken many initiatives to impart quality education among students. It has already brought out B.Sc and M.Sc. Practical Physics books which are very popular and are referred by many colleges of our Nation. Over a long period of its existence it has equipped the PG laboratory with sophisticated instruments. In order to impart the experimental skills among the college teachers handling PG labs this workshop has been planned. With the rich experience of our faculty handling the following experiments, a Complete hands on training will be imparted through this workshop.

### THE EXPERIMENTS TO BE COVERED

1. Milikan Oil Drop
2. Michelson Interferometer (Laser Based)
3. Micro Waves
4. Laser Experiments
5. Fiber optics
6. Hall Effect
7. Hystersis Loop
8. Guoys method (Digital)
9. ESR
10. Zeeman Effect
11. Ultrasonic Interferometer
12. Ultrasonic Diffraction
13. Arc Spectrum
14. UV-Visible
15. FTIR
16. LCR Bridge
17. Dielectric Constant measurement,
18. Impedence Analyser
19. Four Probe method
20. Hyperpolic Fringes

### REGISTRATION DETAILS

**Rs.1,500/- includes study material and refreshment.** Mode of payments is through Demand Draft drawn in favour of **"The Principal, St. Joseph's College, Tiruchirappalli"** in any nationalized bank payable at Tiruchirappalli.

### TRAVEL AND ACCOMMODATION

Participants are requested to make their own arrangements for travel and accommodation. A number of budget-hotels are located in and around our campus.