About the Institution

St. Joseph’s College is an affiliated First Grade College of the Bharathidasan University. It was established in 1844 by the Fathers of Society of Jesus. 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, Reaccredited by NAAC with ‘A’ Grade in 2006 and Accredited again by NAAC at ‘A’ Grade in 2012. Many departments of our college have been sponsored by DST-FIST and DBT-STAR programmes. This is the only college from Tamil Nadu conferred with Special Heritage status by UGC in the year 2015. The college trains young men and women of quality to be leaders in all walks of life so that they serve the people of the Nation in truth, justice and love.

Accordingly, this college strives to be an agent of social change, by incorporating the scientific and technological growth in its UG, PG and Research (M.Phil./Ph.D.) curricula. In accordance with the Jesuit vision of higher education, this college aspires to offer holistic education, leading to the total formation of the individual within the human community.

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 Dr. APJ Abdul Kalam is one of our proud alumni.

The department is blended with its tradition and growth in science and technology up to 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 has established National and International collaboration in many fields of research in recent years and organises symposiums and conferences periodically at International and National level to ignite the students with scientific spirit.

Objectives of the Conference

Material Science is a multidisciplinary branch of science and technology, investigates the relationship between the structure of materials and their micro/ macroscopic properties. In recent years with significant focus on Nano Science and Nanotechnology, Materials Science becomes a more significant field of science and engineering.

* This conference highlights the fundamentals, synthesis, characterization, analysis and applications of materials.
* To create scientific and research temper among the students and researchers through the interaction with the experts in this field.

* To provide a platform for researchers to share their knowledge and expertise with other researchers of their related fields.
* To get exposure to the latest developments in the field of material science from scientists and experts.

Focus Area of the Conference

This conference focuses on the following thrust areas for its latest developments and advanced materials.

- Thin film
- Crystal Growth
- Nano Materials
- Amorphous Materials
- Ceramics
- Magnetic Materials
- Polymers

Call for Papers

The organizing committee invites papers in the above mentioned thrust areas from faculty, research scholars and industrialists. The abstract and full paper as soft copy (MS-Word - Arial, 12pts & 1.5 line spacing) have to be sent to the email sjcphyconf2016@gmail.com. The registration form and the fee may be sent to the Organising Secretary on or before 30-09-16.

Registration Details

Students: ₹ 250/-
Faculty/Research Scholars: ₹ 500/-
Industrial Persons/others: ₹ 750/-

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. The spot registration is allowed for participants.

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.
**Organising Committee**

**Chief Patron:** Rev. Dr. S. John Britto SJ
Rector
St. Joseph's College

**Patron:** Rev. Dr. A. Antony Papuraj SJ
Secretary
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**Chairman:** Rev. Dr. F. Andrew SJ
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**Convenor:** Prof. S. Antony Raj
Head, Department of Physics
St. Joseph's College

**Organising Secretary:**
Dr. A. Leo Rajesh
Asst Professor of Physics
St. Joseph's College

For further details contact

Dr. A. Leo Rajesh
Organising Secretary-NCAM-2016,
Assistant Professor of Physics,
St. Joseph's College (Autonomous)
Tiruchirappalli -620 002

Tel : +91-431-4226438
Mob : +91-94441-22070
Email : sjcphyconf2016@gmail.com

**Important Dates:**
- **Abstract submission:** September 23, 2016
- **Acceptance Notification:** September 26, 2016

**Scientific and Technical Advisory Committee**

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Dr. I. Johnson
Prof. A. Patrick Prabhu
Prof. B. Kanickairaj

**National Conference On Advanced Materials - 2016**

**(NCAM-2016)**

**7th October 2016**

Organized by

**DEPARTMENT OF PHYSICS**

**SCHOOL OF PHYSICAL SCIENCES**

**St. JOSEPH’S COLLEGE (Autonomous)**

Special Heritage Status Institution - UGC
Accredited at ‘A’ Grade (3rd Cycle) by NAAC
College with Potential for Excellence by UGC
DST-FIST Sponsored & DBT - STAR College

TIRUCHIRAPPALLI - 620 002, INDIA

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