

Department of Physics

Workshops / Training Programmes

Title	Date	Duration	No. of Participants
Workshop on “ Microprocessors and Interfacing Techniques ”	7.10.2009	1 day	40
Workshop on “ Computer Hardware, Assembly and Installation ”	24.02.2010	1 day	35
Workshop on “ Learning Principles of Electronic Gadgets ”	28.08.2009	1 day	48
	28.09.2011	1 day	46
	15.10.2012	1 day	49
Workshop on “ Analytical Instruments ”	27.02.2012	1 day	47
Workshop on “ Microprocessor and Microcontrollers Interfacing Devices ”	15.03.2012	1 day	48
	6.10.2012	1 day	47
Workshop on “ Solar Energy ”	19.02.2013	1 day	46
	17.03.2014	1 day	48
Workshop on “ Experimental Physics - Elaborate ” by Dr T. S. Natarajan, IIT, Chennai	12.12.2013	1 day	50
Workshop on Crystallography and its Application in Drug Designing at Centre for Advanced Studies in Crystallography and biophysics at University of Madras	30 th & 31 st Jan. 2014	2 days	50

Guest Lectures

2009- 2010

Physics

Name of the External Expert	Title of the Lecture	Designation & Host Institute
Dr. Kumar Sathian	Basic Electronics	Head, Dept. of Physics (Retd.), Madras Christian College, Chennai
Mr. Barnabas Tibertius	Macrocosm to Microcosm	System Engineer, AMITHA Charitable Trust, Chennai
Dr. Sahayaraj	Nanomaterials	Reader, Dept. of Physics, Loyola College, Chennai
Dr. Joe Jesudurai	Microprocessors – Programming techniques	Reader, Dept. of Physics, Loyola College, Chennai
Mr. Paul Priyadoss	Computer Hardware	System Analyst, Dept. of

	Assembly and Installation	Physics, Madras Christian College, Chennai
Dr. P. Aruna	Medical Applications of Electromagnetic Spectrum	Professor, Dept. of Physics, Anna University
Mr. Barnabas Tiberius	Cosmos	System Engineer, AMITHA Charitable Trust, Chennai
Dr. Gautham Menon	Schrodinger Equation	Associate Professor, Indian Institute of Mathematical Science, Taramani
Dr. Vijayan	Nano Crystallography	Associate Professor, IIT, Madras

2010-11

Physics

Name of the External Expert	Title of the Lecture	Designation & Host Institute
Dr. Ram Prabhu	General Nanotechnology	Professor, Department of Physics, IIT, Chennai
Dr. Prem Bisht	Application of ultrafast laser in science and technology	Professor, Department of Physics, IIT, Chennai
Dr. Gautam Menon	Superconductivity	Professor, Department of Physics, The Institute of Mathematical Sciences, Chennai
Dr. Barnabas Tiberius	Perspectives of Science in reality	Ex. President, Asia Pacific MNC
Dr. Kumar Sathian	Programming Techniques in microprocessor 8085	Retd. Professor, Madras Christian College, Chennai
Mr. John Basco	Photography in Modern world	Head Master, Panchayat Union Middle School, Cuddalore
Mr. Satish	lecture cum demonstration on film developing techniques in Black and White and Colour photography	Professional Photographer, Proprietor Satyam Studio

2011-2012

Physics

Name of the External Expert	Title of the Lecture	Designation & Host Institute
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Dr. T.R. Govindarajan	Braids, Knots and Physics	Professor, Dept.of Physics, IMSc, Chennai
Dr. Sriramkumar L	Distant Supernovae and the Accelerating Universe	Associate Professor, Dept. of Physics, IIT Madras
Dr. Varkey Sebastian	Nanomagnetism	Associate Professor, Dept. of Physics, Kannur University, Kerala
Dr. C.K. Subramaniam	Solar Photo Voltic	Associate Professor, Dept. of Physics, VIT, Vellore
Dr. Kumar Sathian	Programming Techniques in microprocessor 8085	Retd. Professor, Madras Christian College, Chennai

2012-2013

Physics

Name of the External Expert	Title of the lecture	Designation & Host Institute
Dr. Kumar Sathian	Programming Techniques in Microprocessor 8085	Retd. Professor, Madras Christian College, Chennai
Dr. Kumar Sathian	Learning Principles of Electronics Gadgets	Retd. Professor, Madras Christian College, Chennai
Dr. Kumar Sathian	Analog Digital Circuit	Retd. Professor, Madras Christian College, Chennai
Mr. Satish	Film developing techniques in Black and White and on Photoshop	Professional Photographer
Dr. C. K. Subramanian and Dr. Bhuveshwari .G	Renewable Energy	

2013-2014

Physics

Name of the External Expert	Title of the lecture	Designation & Host Institute
Dr Kumar Sathian	Microprocessors and Microcontroller	Retd Professof Madras Christian College
Dr.Manickam Mahendran	SMART MATERIALS	Associate Professor in Physics, Thiagarajar College of Engg. Madurai
Dr Kumar Sathian	Digital to Analog and Analog to Digital	Retd Professor Madras Christian College

	Converters	
Mr.Sathish	Basics of photography	Professional Photographer
Dr T. S. Natarajan	Experimental Physics – Lecture cum Demonstration	Indian Institute of Technology, Chennai

EXHIBITION

2009-2010

Department	Details
Physics	Mini Electronic projects done by III year physics students were exhibited.

2011 – 12

Department	Details
Physics	Aug. 26, 2011 - Water Pollution and Harmful effects of Industrialisation

Industrial / Laboratory / Exposure Visits

2009 – 2010

Department	Particulars
Physics	<ul style="list-style-type: none"> ❖ Visit to Birla Planetarium Exhibition on Science in Everyday Life ❖ Visit to water purifying plant.

2011-2012

Department	Particulars
Physics	<ul style="list-style-type: none"> ❖ The first year students of the department were taken on a field trip to Walsam Industries and AMPITRON Products, Taramani. The students were exposed to the manufacture of windings in a transformer and different types of transformers. The students were also exposed to the manufacture of switches and power gadgets and were also briefed on the fabrication of wires and switches. ❖ The third year students were taken to the Lifeline Hospital and were exposed to the medical instruments working under physics principles. They had demonstrations on the CT, MRI and NMR scanning.

2012-2013

Department	Particulars
Physics	❖ The III year students visited Lifeline Hospital on October 3, 2012 and were exposed to the medical instruments working under physics principles. They had demonstrations on the CT, MRI and NMR scanning.

2013-2014

Department	Particulars
Physics	❖ The Students of III B.Sc Physics visited Precision Diagnostics to get an exposure to the working principles of medical instruments such as ECG, MRI, CT-Scan and Ultrasound Imaging on 7th October, 2013.

- ❖ **Intercollegiate Competitions organised** – Several competitions were organized by the Science departments to make the students experience fun filled learning in their own disciplines. This event provided an opportunity for the students to meet one another, exchange ideas and views, and showcase their talents and organizational ability. The various events included Adzap, Dumbcharades, Junk Art, Debate, Creative Writing, Photography, Paper and Poster Presentations, Collage, Crossword, Myriad, JAM and Quiz. Students from 10 to 15 neighboring Colleges participated in this event.

Department	Year	Date
Physics - Electra	2009-10	February 1, 2010
	2010-11	October 14, 2010
	2011-12	September 19, 2011
	2012-13	September 7, 2012