

**Department of Physics & Electronics**  
**St. Joseph's Degree & PG College**  
**King Koti**  
**Year 2015-16**

**Odd Semester Activities**

**Programme Title:**                   **Seminar on Writing Scientific Paper**

**Target Group:**                    III & II Year B.Sc (Electronics & Physics)

**Resource Person:**                Dr. N. Narsimlu  
Assistant Professor  
Department of Physics, PG College of Science, OU  
Saifabad, Hyderabad

**Date:**                                27<sup>th</sup> June 2015

**Duration:**                         2hours

**Time:**                               11:30 AM onwards

**Venue:**                             Josephs Hall

**Objective:** To acquaint the structure of scientific papers, the techniques for presenting clear logical arguments and the skills needed to write and edit concise, emphatic sentences with examples.

**About Programme:**            The Scientific Paper Seminar is a writing workshop for students. Participants will learn the writing techniques necessary to best construct and explain their ideas and the editing skills to refine and polish their work. One-to-one sessions allowed us to address personal concerns, to apply our techniques to specific pieces of work and to help build confidence about writing.



Inaugural Session



Technical –Orientation Session

**Programme title:                   Orientation Programme for I Years**

**Date:** 29.6.2015

**Objective:**

The major objective of the programme was to make the parents and students aware of the academic aspects of the course, the rules and regulations of the Institute and ensuring parental participation in monitoring the performance and progress of the students.

The other objective of this programme is to provide a smooth transition for the students into the new environment of the Institute.

**About Programme:**

First year students often feel ill-equipped academically and emotionally, hindering their integration and adjustment into university life.

During orientation, students will be made aware of opportunities to be socially integrated into the college culture. If students do not become socially integrated within the first few weeks of their arrival, they are less likely to stay at that institution. Social activities can include parties, games, concerts, icebreakers, and hang-out time. Students also can learn about the various student organizations in which they can be involved.

The programme was inaugurated with the lighting of the lamp by the Assistant Vice principal, academic coordinator and other dignitaries.

Rev.Fr.Vincent Arokiadas, Principal of the college, while delivering a speech on the occasion, said that it was not the events but the attitude that caused success. He also stressed the importance of dedication to one's profession.

Mr.Raj Kumar, Academic Coordinator Sciences, briefed the students about the rules and regulations of the institute and requested the students and parents to understand and abide by the institutional rules and norms.

*Entry level* feedback revealed strong academic support for the initiatives, with the Department of Science students reporting their orientation experience significantly more positive than students from the other two colleges.

## Photo Gallery



Inaugural Session



Department of Phy & Elec ,HoD Interaction Session

**Programme title:** Awareness Programme on Mini Projects

**Target Group:** I & II Year B.Sc (Electronics & Applied Electronics)

**Interaction Team:** III Year B.Sc (Electronics)

**Hours:** 5<sup>th</sup> & 6<sup>th</sup> Hours

**Date:**

**Time:** 12:20 PM onwards      **Venue:** Electronics Lab



**Objective:**

- To allow students discover, explore the concepts and ideas.
- To empower knowledge of students to build an electrical circuit and to understand its various parts and how electricity flows in it.
- To show how the instruments and components work.

**About Programme**

Now-a-days many students are trying to improve their knowledge and skills by creating new projects. Especially in electronics field, there is lot of chance to prove themselves as good electronics student. This programme gives a basic idea about how to choose and what type of projects that they can choose.



Introduction Session



Interaction Session

**Programme title: Parent – Teacher Meeting**

**Date :** 22<sup>nd</sup> Aug 2015

**Time:** 11.30 am to 3.30 pm

**Target group :** All B.Sc Students

**Class In charges :** Mr. M. L. N. Rao B.Sc (MECs) -I Year , Mr. M. Sravan Kumar B.Sc (MPCs) – I Year, Mrs. L. Mihira Priya B.Sc (MECs) III Year, Mr. R. Ashok Kumar B.Sc (MPCs) III Year.

It is a short meeting between the parents and teachers of students to discuss student's progress at college and to find solutions for academic or behavioral problems.

The following activities are organized in Parent-Teacher Association:

- The performance of student discussed.
- The personal as well as academic problems of the student discussed jointly and efforts made to solve these problems.
- Invited parents to accept their viewpoints.
- Parents appreciated the management and faculty for providing quality education and conducting events that focused on overall development of the student, Placement Support, discipline maintained by the college.

**Programme title: Interdepartmental Guest Lecture**

**Target Group:** II Year B.Sc (Electronics)  
**Resource Person:** Fr Kingston, HoD, Mass Communication & Journalism  
**Date:** 12<sup>th</sup> Sept 2015  
**Duration:** 1hours  
**Time:** 9:30 AM onwards  
**Venue:** Studios, Dept. of Mass Comm.

**Objective:** Objective is to provide students an opportunity to gain knowledge and insights on various concerns faced by the world today through interactive sessions.

**About Programme:**

The Guest Lectures are an excellent opportunity for students to meet with experts, gain knowledge and build their understanding of key global issues.

This Guest Lecture is a way of enriching our students with the latest updates of the Radio, Television & Multimedia Industries and Technicalities. The Students are bestowed with knowledge about Industry needs, latest technical updates, Avenues for Higher studies etc.



Resource Person with students in Interaction & Technical Session

**Programme title:****Alumni Association Meet - 2015**

**Date:** 19<sup>th</sup> Sept 2015

**Time:** 2.00 to 4 pm

**Venue:** Joseph's Hall

**“Alumni Association Meet – 2015”** was held on 19<sup>th</sup> September 2015 at Joseph's Hall for the Degree & PG Courses.

There were twenty-five alumni members attended the meet and shared their views to the students and staff.

The program was started with prayer by Rev. Fr. Richard, Vice-principal, followed by prayer song sung by college choir. Mrs. Aparna Sathe, MC of the program gave an introductory talk of the significance of Alumni Association Meet.

Rev. Fr. Richard, for President of alumni meet, appreciated the alumni members of their immense support in framing syllabus, technical inputs for students and staff, providing placement opportunities to our students, active participation and valuable suggestions during BoS meetings, admissions into various courses, suggestions on improving quality education and help rendered for preparing industry-ready curriculum design.

He thanked them for their continue support and service towards the growth of this institution. Mr. Michael, Vice-president gave a motivational speech about the alumni association and their functioning. He also appreciated the management for giving him opportunity to pursue the right course at right time which helped him to achieve his career growth.

The students of B.Sc performed cultural programme and entertained the alumni members. The alumni interaction was meticulously planned and executed by Mrs. R. Anitha and alumni members expressed their intension for attending the alumni association meet. Mrs. L. Mihira Priya alumni co-ordinator for Science communicated information about meeting. Mr. M.L.N. Rao HoD, Mr. M.Sravan Kumar and Mr. R.Ashok Kumar interacted with the alumni.

Finally the formal vote of thanks proposed by Mr. M. Joseph Raja kumar, Convener, Alumni Association committee. The program was concluded with group photograph and high tea.

**Programme title: Bridge Course**

**Target Group: B.Sc (MPCs & MECs) I Year Students**

**Duration: One Week**

**Month: July**

The Department conducted bridge Course for I year B.Sc students both in Physics & Electronics to bridge the gap in knowledge level from +2 to UG.

<b>Subject</b>	<b>Title</b>	<b>Name of the Faculty</b>
Electronics	Fundamentals of Electronics	Mr. M. L. N. Rao
Physics	Fundamentals of Physics	Mr. M. Sravan Kumar



**Programme title: Faculty Development Programme**

S.NO	Date	Name of Faculty	Programme Title	Other Details
1.	29 <sup>th</sup> July 2015	Mrs. L. Mihira Priya	Embedded Systems & Applications	* <b>Nature of Prg:</b> One day FDP  * <b>Place:</b> Aurora Degree & PG College, Chikkadapally, Hyderabad
2.	29-30 <sup>th</sup> May 2015	Mr. Sravan Kumar	Recent Trends in x - ray diffraction technology	National Workshop –at OU,Hyd.

Photo: FDP Programme: Faculty with resource person



## Programme title-Student Participation

S.No	Student	Course	Details
1.	Shaik Abdul Rehman	II MPCs	Participated in 2 <sup>nd</sup> Telangana State Open Junior Athletics . 3 <sup>rd</sup> place in 4x100MR 10 <sup>th</sup> & 11 <sup>th</sup> October 2015.
2	K Keerti	B.Sc II MPCs	Kuchipudi Dance competitions at Ravindrabharathi
3	Gaurav Shukla	B. Sc III NHAEM	Wild Life Photography --Achieved Best of the team (All India) from DCP Expeditions and ii. Most Promising Group Leader.

## EVEN SEMESTER ACTIVITIES

### Name of the Event: **Josephites Social Responsibility (JSR)**

**Activity:** Orphanage Visit- Hyderabad.

**Date:** 27/2/16, Saturday

#### **About Activity:**

- JSR Program was Carried out as social concern by B.Sc final year students along with the staff members- Mr. M.Sravan kumar, Mr. D.Srinivas Reddy and Ms. S.vijaya laxmi  
All orphans were taken to the SBH Colony Park near by the orphanage. Various activities were conducted for the 40 orphans :
  - Self-Introduction
  - Dialogue Delivery
  - Singing
  - Dancing
  - Sketching & Painting
  - Physical fitness
  - Playing Kabaddi
- Prizes, Gift, Groceries, cloths were distributed to all the children as a token of appreciation for their active participation, the program was followed by a lunch at the orphanage.

**Response from a orphan child:** At the end of the program, feedback was taken from an orphan child who was-"I enjoyed a lot today and had my favorite meal. I have also won a prize in painting & sketching competition & have got many gifts form you all. I thank you all for all you have done & I had a great day".

## Gallery:



Faculty & Students -A day with orphan children

## Other Details

S.NO	PLACE	AMOUNT	NO. OF STUDENTS	CLASS & YEAR	INCHARGE	REMARKS
1.	Amma Foundation, Saidabad, Hyderabad.	14,000/-	80	B.Sc – III	1. M. Sravan Kumar 2. D. Srinivas Reddy 3. Vijaya Laxmi	Apart from money students distributed old clothes, books, fruits, stationary items and lunch.
2.	Thara Orphanage, Old Airport Road, Bowenpally, Sec'bad.	13,800/-	90	B.Sc – II	1. M.L.N Rao 2. R. Ashok Kumar 3. N. Laxmi	Apart from money students distributed books, fruits, stationary & other items and lunch.
3.	AMS – Deaf & Dumb School, Vidyanagar, Hyd.	5,750/-	80	B.Sc – I	1. Radhika 2. Lavanya	Apart from money students distributed books, fruits, stationary items.

## Name of the Event : Science Day Celebrations

Organizers: Faculty - Physics & Electronics

Date : 29/02/2016 & 30/02/2016

Venue : JOSEPH'S HALL

Timings : 11:30AM to 1:30AM

**Objective:** To promote and create enthusiasm among students towards building Higher career opportunities in the field of pure science.

### About Event:

- Department of Science conducted **Poster making** about three noble prize winners in India.
- Department conducted **Power point presentations** on Noble laureates of India in science and literature.
- Department conducted **computerized Quiz program**, which was developed by the HoD, Department of Physics & Electronics. MLN RAO, coordinated by other faculties.
- Best presentations identified and winners are encouraged and honored with certificates.

### Gallery:



**Name of the Event : International Guest Lecture**

**Resource Person : Prof. M.ISHAQUE KHAN**

**ILLINOIS INSTITUTE OF TECHNOLOGY, Chicago, USA**

**Date : 22/01/2016 Venue: SEMINAR HALL-I Timings: 10:00AM to 12:30AM**

**About the Event:**

- Prof. M.ISHAQUE KHAN, Chairman, Department of Chemistry & Director, Materials Chemistry Program, Illinois Institute of Technology, Chicago delivered excellent Lecture on “NANO SCIENCE AND NANO TECHNOLOGY”.
- Mainly focused on Nano materials properties, their size & behavior at nano scale and also presented range of applications in Engineering, chemistry, biology and other related fields. Thought provoking views of Prof. Ishaque made a significant impact on young minds to think about higher education and prospects in the field of Nano Science.

**Gallery:**



## Interdepartmental Extended Guest lecture

**Lecture by:** Mrs L. M. Priya, Senior faculty, Department of Physics & Electronics

**Target Group:** II BA (Mass Communication & JPE)

**Topic:** Impact of Digital Technology by new media in Mass Communication

**Duration:** 1 Hour

**Objective:** Interdisciplinary study requires a mature base in the disciplines.

## Science club Activities Happy 137th Birthday Albert Einstein-Department Celebration Pi Day Celebrations

**Date:** 16/3/16

**Name of Activity:** Class Room Presentation on” Life of Einstein & His Contributions to Society”

**Students Names:** 1. Mr P .Ravi Raja ---III/VI SEM B.Sc (MPCs)  
2. Allen Tider ---III/VI SEM B.Sc (MPCs)

**Target Group:** III Phy & Elec students.

**About Event:**

Department and students kicked off the March 14<sup>th</sup> Pi Day event, which commemorate Albert Einstein's birthday through activities.

**Gallery:**



## General Details

### Department of Science Ranking

#### CITYWISE RANKING: BEST SCIENCE COLLEGES

CITY: HYDERABAD	
RA NK	NAME OF THE COLLEGE
1.	St. Francis College for Women
2.	Osmania University College for Women
3.	Nizam College
4.	Loyola Academy Degree & P.G. College
5.	St. Ann's College for Women
6.	Bhavan's New Science College
7.	St. Joseph's Degree & PG College
8.	Avanthi Degree and P.G. College
9.	A.V. College
10.	St. Paul's Degree & P.G. College

#### EMERGING COLLEGES RANKING: BEST SCIENCE COLLEGES

STREAM: SCIENCE								
Rank	NAME OF THE COLLEGE	Reputation	Academic Input	Student Care	Infra	Placement	Perceptual Rank	Factual Rank
1	Presidency College	1	1	1	1	1	0	0
2	St. Joseph's Degree & PG College	2	2	2	2	2	0	0
3	Netaji Subhash Chandra Bose Degree College	3	3	4	3	3	0	0
4	St. Joseph's College for Women	4	4	3	4	4	0	0
5	Tagore PG Girls College	5	5	5	5	5	0	0

### Department of Science ----- Placement details

**Total Registered: 49**

Date	Company	Appeared	Selected/No .of offer letters received	CTC
3-7-2015	Amazon	16	-----	-----
9-9-2015	Wipro	26	14	1.5L & 1.62-2.76L
15-9-2015	Sutherland	19	-----	1.32-2.04L
6-10-2015	Unisys	35	4	2.15L
8-12-15	Genpact	26	1	
12-01-2016	Minacs(International)	-----	4	1.4L
25-01-2016	MPhasis	-----	4	2.9L
11-02-2016	Infosys	-----	4	2.17L
10-03-2016	Verizon	-----	1	3.7L
27-12-016	Synchrony financials	-----	Pending	2.4L

## About US:

### Faculty Profile -2015-16

Name	Qualification	Designation	Experience
Mr. M. L. N Rao	M.Sc (Appl. Electronics)	Associate Professor & HoD	20 years
Mrs. L. Mihira Priya	M. Sc (Electronics),, M.Tech., B. Ed	Associate Professor	18 years
Mr. Shravan Kumar	M.Sc (Appl. Electronics),, M.B.A., B.Ed., (Ph.D)	Associate Professor	17 years
Mr. R. Ashok Kumar	M.Sc (Appl. Electronics),, UGC-NET	Associate Professor	20 years

## Board of studies Members Electronics:

### I.

1. Rev. Fr. Vincent Arokiadas  
Principal, St. Joseph's Degree & PG College
2. Mrs. R. Anita  
Dean Academics, St. Joseph's Degree & PG College

### II. University Nominee

1. Prof. C. Vishnuvardhan Reddy  
Chairperson – Board of Studies, O.U.
2. Prof. D. Suresh Babu  
Head, Department of Physics, OU.

### III. External Experts

3. Dr. C. Shivaraman  
Subject Expert, Pragathi Mahavidyalaya, Hyderabad.
4. P. Chandra Shekar  
Member - Industry, Hyderabad.

### IV. Faculty

5. Mr. M. L. N. Rao , HoD
6. Mrs. L. Mihira Priya, Senior Faculty
7. Mr. M. Sravan Kumar, Senior Faculty
8. Mr. Ashok Kumar, Senior Faculty

### IV Alumni

9. Mr. A. Vinay Sai Krishna



## **Board of studies Members Physics:**

### **I. MEMBERS:**

1. Rev. Fr. Vincent Arokiadas, Principal, SJDC
2. Smt.R.Anitha, Dean, Academics, SJDC
3. Smt.B.Esther Ratna, Dean, Administration, SJDC

### **II. University Nominee:**

1. Prof. D. Suresh Babu, Head of the department, Physics, OU
2. Prof. J. Shiva Kumar, Chairperson-Board of studies, OU
3. Prof. K. Siva Kumar Subject-Expert, OU

### **III. External Experts:**

1. Dr. P.S.R. Prasad, Scientist, NGRI, Hyderabad.

### **IV. Faculty:**

1. Mr. M. L. N. Rao ,HoD, SJDC
2. Mr. M. Sravan Kumar, Senior Faculty, SJDC
3. Mr.R. Ashok Kumar, Senior Faculty, SJDC
4. Mrs. Mihira priya , Senior Faculty ,SJDC

### **IV Alumni**

1. Mr. Atul Bhat

## **Academics:**

### **COURSES OFFERED**

- MECS ( Mathematics, Electronics, Computer Science)
- MPCS ( Mathematics ,Physics, Computer Science)
- NHAEM (Networking & Hardware, Applied Electronics, Mathematics)

## **Course Structure of Department of Physics & Electronics**

**Electronics of B.Sc (M.E.Cs) CBCS Course Structure for 2016-19 batch (UGC)**

**Physics of B.Sc (M.P.Cs) CBCS Course Structure for 2016-19 batch (UGC)**

**BSc (MPCs) CBCS Course Structure 2016-2017**

	Subject Code		Paper	Hours/Week			Credits	Max.Marks	
				L	T	P		Internal	End sem
First Semester	BS.05.204.12.T	CORE	Mechanics -Theory	4	--	--	4	40	60
	BS.05.204.12.		Mechanics- Lab	--	--	3	2	20	30
Second Semester	BS.05.204.22.T	CORE	Electricity, Magnetism and EMT	4	--	--	4	40	60
	BS.05.204.22.P		Electricity, Magnetism and EMT-Lab	--	--	3	2	20	30
Third Semester	BS.06.204.12.T	CORE	Thermal Physics and Statistical Mechanics	4	--	--	4	40	60
	BS.06.204.12.P		Thermal Physics and Statistical Mechanics Lab	--	--	3	2	20	30
	BS.06.204.16B.T	SEC1	Renewable energy & Energy harvesting	2	1	--	3	40	60
Fourth Semester	BS.06.204.22.T	CORE	Waves and Optics	4	--	--	4	40	60
	BS.06.204.22.P		Waves and Optics Lab	--	--	3	2	20	30
	BS.06.204.26B.T	SEC 2	Applied Optics	2	-	2	3	40	60
Fifth Semester	BS.07.204.12A.T BS.07.204.12B.T BS.07.204.12C.T	DSE	1. Elements of Modern Physics 2. Digital, Analog and Instrumentation 3. Mathematical Physics	4	--	--	4	40	60
	BS.07.204.12A.P BS.07.204.12B.P BS.07.204.12C.P		1. Elements of Modern Physics- Lab 2. Digital,Analog and Instrumentation- Lab 3. Mathematical Physics- Lab			3	2	20	30
	BS.07.204.14B.T	SEC 3	Electrical Circuits &Network Analysis	2	-	2	3	40	60
Sixth Semester	BS.07.204.22A.T BS.07.204.22B.T BS.07.204.22C.T	DSE	1. Quantum Mechanics 2. Nuclear and Particle Physics 3. Solid State Physics	4	--	--	4	40	60
	BS.07.204.22A.P BS.07.204.22B.P BS.07.204.22C.P		1. Quantum Mechanics- Lab 2. Nuclear and Particle Physics- Lab 3. Solid State Physics - Lab	--	--	3	2	20	30
	BS.07.204.24B	SEC 4	PROJECT	4	--	--	6	40	60
Total				14	--	9	12	260	490