

**Department of Physics and Electronics
Annual Report
Year 2010-11**

Certificate programmes initiated

- **New certificate programmes initiated**

Certificate Course: Interdepartmental activity

Title: Basics in Management

Duration: 20Hrs

Fee: Rs 200/-

Resource Persons: Faculty of the Department of Business Administration

- **Bridge courses**

To enrich Conceptual knowledge levels and to acquire required skill set before exploring further levels in the Science subjects , the Department initiated bridge courses in Physics and Electronics Subjects.

Subject: Electronics

Title: Basics in Electricity and Semiconductor Physics.

Resource Person: Mr.M.L.N.Rao

Subject: Physics

Title: Fundamentals in Physics.

Resource Person: Mr.Sravan Kumar

Departmental Activities

Report on Field Visit to Vijaya Dairy

Date:21-08-2010

We the students of B.Sc II Year attended for the **Field visit (Vijaya dairy) on 21-08-2010(Saturday)** located at Tarnaka,HYd under the supervision of Mr. M. Shrvan Kumar,lect in Physics, Dept. Physics & Electronics.About 30 students visited

in order to get awareness about the present day technology being used in the process and production of dairy products.

We learnt about the preparation, production, Quality, mixing, cooling, boiling, packing of milk, ghee, cheese, Badam milk, etc. Milk products production details given by the respective Departmental incharge of vijaya dairy. This had helped us to gain a lot of information on present technology.



Activity: Field Visit to All India Radio & Rainbow 101.9 FM, Hyderabad.

Date: 29.07.10'

The Department of Physics & Electronics organized a field visit to AIR/RAINBOW 101.9 FM, which allowed students to explore the functional & realistic aspects of the Electronics (Communications). This tour helped them to have a real time exposure to the transmission, Modulation techniques & recording in the studios. Students actively participated in the procedures with regard to recording and broadcasting and had in house experience of the procedures followed. About 30 students of II B.Sc (Electronics/Physics) participated in the visit.



Report on Science Day Celebration

Date: Nov 9th-10th,2010.

Science Day Celebrated by the Department of Physics & Electronics, on Nov 9th-10th, 2010. Various programs are conducted with the involvement of large number of young students for purposeful interaction between the science fraternity & the other Department students for mutual benefit. The programs include guest lecturers, poster presentation, Group discussion.

On second day the Department arranged for a lecture series. The following Eminent personalities have kindly agreed to deliver guest lecture for students of Physics & Electronics.

Lecture 1:

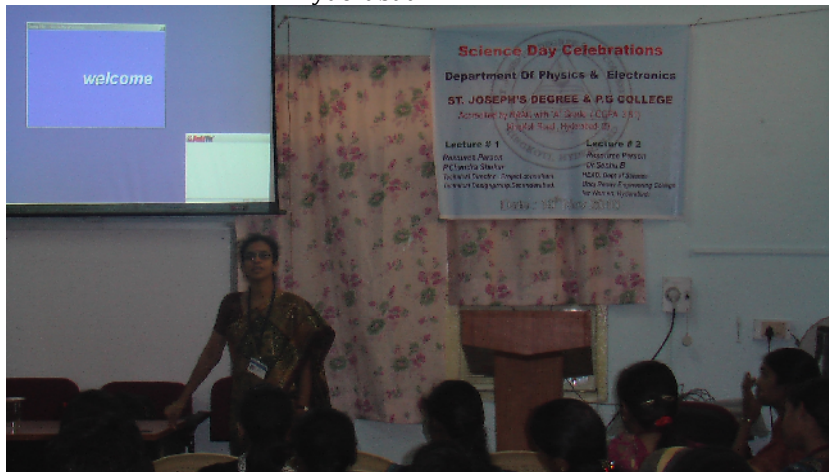
Topic: Embedded systems and Its Applications

Resource Person: P.Chandra Shekar, Technical Director
Technical Group, Sec'bad.

Lecture2:

Topic: Nano Materials

Resource Person: Dr. Seshu. B
HOD, Dept of Science,
Bhoj Reddy Engineering College for Women
Hyderabad



Guest Lectuer on Nanomaterials



Guest Lecturer on Embedded System and its Applications



Event: Poster Presentation

Science Day Celebrations-9.11.2010

Event	Topic	Winner Name	Prize
Poster Presentation	Science in the Kitchen	Shraddha, Parveen-III	I
		Prem, Sharavan	II
Chat Time(GD)	Does detention actually serve a Purpose	Neil Mario, Avinash, Raghava -III MSCs	I
		Social Networking	Nihar, Aashish, Faisal

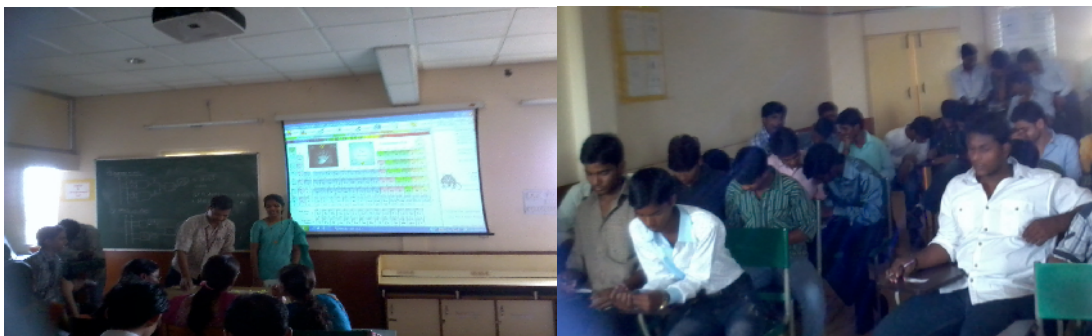
Report on Science Club Activities

Activity:1

Date: 20.07.10

Event: TAMBOLA-Play with Periodic Table

Department of Physics & Electronics conducted “TAMBOLA-Play with Periodic Table” as a part of our monthly activity of the club. This game was conducted for all the three years science students by II B.Sc students Vinay Sai Krishna and his four member team. The prime objective in arranging this program was to augment students’ interest in the subject along with fun.



“TOMBOLA- Play with Periodic Table” Participants in action

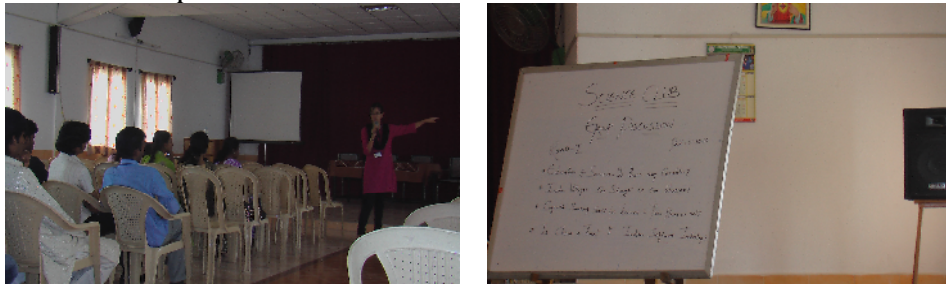
Report on Science Club Activities

Activity:2

Date:1st October2010

Event: Group Discussion.

As a part of Science Club activities the Department of Physics & Electronics always encourages and provides opportunity for students to arrange and to conduct various events. Most of these events are students need based and are arranged with the guidance of other Departments if needed.



Students receiving tips from the judge at the time of Group Discussion

Report on workshops

1. Topic: Animation

Date: Sept 9th,2010

2. Seminar: Topic: IT education and significance in current industry

Date: 5th Aug 2010.

Target group: B.sc students of three years.

Objective: To familiarize about emerging trends in the IT market and to stress on the need to learn new courses like Animation and movie Editing to meet industry demands.

Students of B.Sc received an opportunity from NIIT, Hyderabad, to gain knowledge about current trends in IT and its impact on the market. Speakers were eminent faculty from NIIT. The seminar was targeted for the B.Sc students. Department also conducted workshop for students on Animation and Movie Editing with the help of OPTIMUS, training institution from Hyderabad. Mr.Hari senior faculty from the institute gave presentation on various features in MAYA software and also demonstrated linear and nonlinear movie editing. This half day workshop opened a broad future prospective for the students of B.Sc.



OPTIMUS faculty in action at workshop.

Year 2010-11 –Land Marks of the Department

1. **Extra Feather in the Cap of St.Joseph's** – Ranked 10th in the city of Hyderabad among the TOP SCIENCE Colleges by INDIA TODAY Magazine 2010.
2. Established separate Lab for Simulation in Electronics with MULTISIM, Keil, edsim51, 8085 Simulator Packages.

Student Participation

1. Student Seminars

- To inculcate better usage of e-learning system by the student .
- To enrich their knowledge in various subjects (both Curriculum based & beyond curriculum) and
- To guide fast learner / enthusiastic student.

Faculty allow student to give power point presentation on a topic during the class hour.

S.NO	Topic	Student Name/Class	Date
1.	Embedded Systems	AVS Krishna Jasinth Mary (Individual)-III Yr	July 20 th ,2010
2.	GSM Vs CDMA	Stevenson Mirza Nadeemmullah Baig (Individual)-II Yr	October 7 th ,2010
3.	8051Microcontroller	Zeeshan,Muna Mazher,Nikhita,Bernadine (Group)-III Yr	July 21 st ,2010
4.	Basic Types of Communication Systems	B.Hari (Individual)-II Yr	December 9 th ,2010

2. Assignments

The Department encourages student to take up assignments or to prepare a report after on the spot study, either in group or individually. Few of the topics are mentioned in the table.

S.NO	Topic	Student Name/Class	Date
1.	Digital Communication	II B.Sc Electronics (Group)	October,2010
2.	Network Theorems	I Year(Elec)	September,2010
3.	Bipolar Transistors	I Year(Elec)	November,2010
4.	Microcontroller 8051 Architecture	III Year(Elec)	August,2010
5.	Nano Material	III Yr(Phy)	November
6.	Lasers and its Applications	II Yr(Phy)	November
7.	Crystal Structures	III Yr (Phy)	December

3. Extra Curricular Activities

For all round growth of student, the Department always encourages student to actively involve themselves at various happenings in other organizations or within the campus.

S.No	Event	Participated Group	Event Organizers
1.	YRC Workshop 5 th Oct 2010 Topic: Health Development	2 Members from I&II Yr (AVS Krishna, Lal Chand Yadav)	Red Cross, Hyderabad
2.	HIV/AIDS Day Quiz 30 th Oct 2010	Amair - IYr	Rotary Club of Bhagyanagar
3.	ABACUS IT Quiz 19 th Nov	4 members (2 in each team) - III & II Yr Received	Badruka College, Hyderabad.

		Consolation Prize.	
4.	Inter College Paper Presentation Competition at INNOVATION 2010, 29 th July 2010	2 members –IIIYr Topic: Nano Technology	Loyola Academy Degree & P.G College, Sec'bad.
5.	State Level Student Seminar at ALPHA, 12th Dec 2010.	2 Members-I Yr Topic: Hydrosphere	Andhra Loyola College, Vijayawada.
6.	United Games of Education-Alternate Education (A Cultural Exchange Program)	5 members-IIyr	Thiruvarur



Our students at Tiruvayur Cultural Exchange Programme

Community services

Our students participated actively in the NSS programme conducted at 30 Anaram village, Bandlla Guda, arranged by the Management.

Student achievement and awards

S.No	Event	Achievement	Student/Class
1.	ABACUS Quiz,Conducted by Badruka Degree & PG College on 19.11.10	Consolation Prize	Joseph Thomas,II B.Sc(MPCs)
2.	COFEE,Conducted by St.Francis College on 7.1.11	Talent Hunt-I Prize	M.Anand ,II B.Sc(MECs)

Placement services provided to students

Placement Details & Programs

Program Title	Resource Person	Duration	Targeted Group
Resume Interview Tips - Workshop	Ms.Kiran Khaidem Lect.Dept.of English.	6Hrs.	III yr B.Sc
Seminar - Software testing Tools	Mrs.Kiran Jyothi Associate Professor Dept.of Computer Science	1Hr	III Yr B.Sc



Students at Seminar on Software Testing tools



Resume Interview Tips Workshop, Ms.Kiran Khaidem ,Lect.Dept.of English

Placement Details: Registered Number:21

S.No/Date	Company Name	Appeared No.	Selected Number
1. 18/8/10	WIPRO(BPO)	19	
2. 8/11/10	DELL	11	--
3. 11/11/10	APOLLO Health Street	18	5
4. 10/11/10	ADP	6	3
5. 6/11/10	Cognizant	21	3
6. 18/11/10	MRF	21	3
7. 24/11/10	E-Boss	18	0
8. 28/2/11	HSBC	9	1

Healthy practices of the Department

Learning process

- **Encouraging Hands on Learning:** Experiential learning through mini projects, model making, Simulators, component soldering.
- **Each one, teach one:** Empowering students as leaders: Student peer who assists in laboratory work, mini projects and class room discussions.

Teaching:

- **Peer review of Materials.**
- **Developing Scientific Research Skills.**
- **Developing Scientific Understanding.**

Department of Physics & Electronics
St. Joseph's Degree & PG College
Report 2010-11 (Summary)

Activity	Date/Month	Objective	Class/Group	Topic/Organisation
Field Visit	21.8.10	To get hands on experience with the production & services involved in various industries.	III B.Sc (Elec) 26 students visited.	Vijaya Dairy
	29.7.10	To get acquainted with the real time transmission technology	III B.Sc(Phy/Elec)	Industry: All India Radio/Rainbow 101.9FM
Guest Lecture	9.11.10	To familiarize about various emerging technologies.	I/II/III B.Sc –All Groups Topic: 1. Embedded systems and Its Applications 2.Nano Materials	Resource persons: 1. P.Chandra Shekar, Technical Director, Technical Group,Sec'bad. 2. Dr. Seshu. B HOD, Dept of Science, Bhoj Reddy Engineering College for Women, Hyderabad
Pre-Placement Activities	30.9.2010 9.9.2010	To train the students to meet the industry needs	Seminars: 1.Testing tools. 2.Amination	Resource Person:1. Mrs.Kiran Jyothi,Associate Professor,Dept.of Computer Science 2.OPTIMUS-Institute.
	11.10.2010	To provide tips to prepare effectively for placement interviews.	III B.Sc –all groups Workhop-6Hrs	Ms.Kiran Khaidem Lect.Dept.of English.
Career Counseling		To development habit of sharing	For all years of B.sc	Part of regular time table

		and expressing problems in /among students		
Bridge Course	June	To fill gaps in knowledge level from +2 level to UG	For I years Title: Learn basics in Electricity Duration: 1Week	Incharge:Mr.MLNRao- Electronics Mr.Sravan Kumar- Physics
Certificate Course (Interdepartmental Activity)	5.8.2010	To Enrich knowledge in beyond curriculum related topics.	For II B.Sc's Title: Basics in management Students Attd: 22	Conducted by:Dept.of Phy & Elec/MBA Dept.
Student Seminars		To make student s to be more tech savvy.	III B.Sc/II B.Sc	List enclosed with the report
Assignment		To develop research skills by making use of various resources available	III B.Sc/II B.Sc	List enclosed with the report
Tutorials	19.1.2011 To 27.1.2011	To help slow learner	Tutorial Subject: Physics /Electronics	1)Physics-Incharge:Mr Sharavan Kumar 2)Electronics- Incharge Mrs:Priya,Mr.MLNRao.
Extra-Curricular Activities		To generate interest & to explore in all fields & dimensions	Pracipation list enclosed with the report	List attached with the report.