

ELECTROVISION



Rajagiri School of Engineering & Technology, Kakkanad

May-August 2010, Volume 11

From The H.O.D.'s Desk....

Work hard at what you like to do and try to overcome all obstacles

Laugh at your mistakes and praise yourself for learning from them

Pick some flowers and appreciate the beauty of nature

Say hello to strangers and enjoy the people you know

Don't be afraid to show your emotions laughing and crying make you feel better

*Love your friends and family with your entire being they are the most important part
of your life*

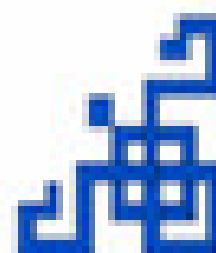
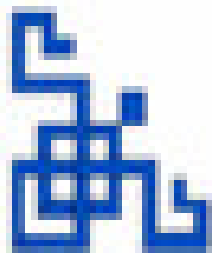
Feel the calmness on a quiet sunny day

*Find a rainbow and live your world of dreams always remember life is better than it
seems.*

CONTENTS

PAGE NO:

<i>HOD's Desk</i>	<i>1</i>
<i>SDP on Signal Processing in Biomedical Application</i>	<i>2</i>
<i>Short Term course in PIC</i>	<i>3</i>
<i>Student Project Exhibition</i>	<i>4</i>
<i>Courses attended by DEC faculty</i>	<i>5</i>
<i>ELECTRONAUTS Inauguration</i>	<i>7</i>
<i>GATE Qualified candidates</i>	<i>8</i>
<i>Special lecture series for 11nd Semester M.Tech</i>	<i>9</i>
<i>Induction Programme for 1st Semester M.Tech</i>	<i>10</i>



Staff Development Programme on Signal Processing in Biomedical Applications

On the occasion of 10th year celebrations of RSET, the department of Electronics & Communication had the opportunity of hosting an SDP, which focuses on the emerging research avenues in the field of signal processing in biomedical applications.



The Inaugural ceremony of SDP, started with a silent prayer in the Conference hall at 10:30 am on 3rd May 2010. Welcome speech was delivered by Prof. Ms. Asha Panicker, Head of the Department, Electronics & Communication Engineering, RSET. The workshop was officially inaugurated by Dr. Padmakumar, Medical Director, Sunrise Hospital, Kakkannad. Dr. J Isaac, Principal, RSET delivered the presidential address. A course material for the FDP was also released by Dr. Padmakumar, Dr. J Isaac & Dr. A C Mathai, Professor Emeritus, RSET. Mr. Parameshwaran, IETE Chairman Kochi Chapter and Dr C Karthikeyan, Professor, DEC, RSET felicitated the gathering. Ms Liza Annie Joseph coordinator of the workshop delivered the vote of thanks. The inaugural function was over by 11:15 am.

Following the inauguration, Dr. Padmakumar, Medical Director of the Sunrise Hospital, delivered the keynote address on 'Advanced Biomedical Equipment & Treatment Outcome'. Prof Asha Panicker, HOD, ECE, RSET mainly discussed about the areas where mostly DSP is used and also discussed its application in various domains.



SHORT-TERM COURSE IN PIC MICROCONTROLLER

HELD DURING JUNE 16-23, 2010

The Department of Electronics and Communication Engineering organized a short-term course in PIC Microcontroller during June, 2010, as part of the Continuing Education Cell programme. The course was held in Systems Lab from June 16 to June 23, 2010.



PIC microcontrollers find wide applications in robotics and other modern-day digital systems. This short-term course was conceived with the objective of giving the participants a thorough understanding of PIC microcontrollers, their architecture and practical applications through tutorial lectures and practical sessions in programming.

The courses were designed and conducted by the following members of the RSET, DEC faculty:

- Mr. Jaíson Jacob
- Ms. Tressa Michael
- Mr. Delson TR
- Ms. Anísha Natarajan

The lab sessions were supported by:

- Mr. Gínjith John
- Mr. Jíju K. Mtahew
- Mr. Arun

15 students of S5 EC joined the course paying the prescribed course fee of Rs. 3000/- per head.

The following members of technical staff also attended the course:

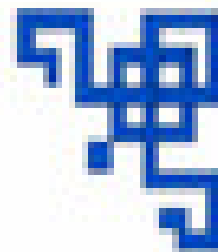
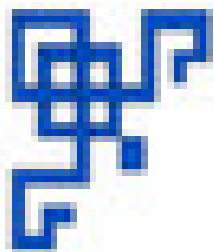
- Mr. Shaibu Kurian
- Mr. Gínjith John

All participants were be given RSET certificates by Rev. Fr. Jose Alex CMI, Director-RSET.



Feedback was taken from the participants.

The course coordinators were Ms. Tressa Michael and Ms. Anísha Natarajan. Mr. K. Rama Varma (DEC) was the Main Coordinator and Ms. Asha Panicker, HOD-ECE was the General Convener for the course.



Student Project Exhibition 2010

As part of decennial celebrations of Rajagiri School of Engineering & Technology, the Department of Electronics and Communication Engineering (DEC) organized a three day project exhibition on 8th, 9th and 12th of July 2010. It showcased the projects done by students of DEC as part of their curriculum during 2009 - 10. The Coordinators for the exhibition were Mr. K Rama Varma, Mr. Pramod Govind and Mr. Shaibu Kurian.

Rajagiri College Director Rev. Fr. Jose Alex CMI, Principal Dr. J Isaac, HOD Prof. Asha Panicker, Deans, Heads of departments and other faculty members were present on the occasion.

Experts from industries like Wipro Technologies, SFO Technologies Nest, EXOR India Private Ltd. and US Technologies Ltd. visited the exhibition on 8th July 2010.

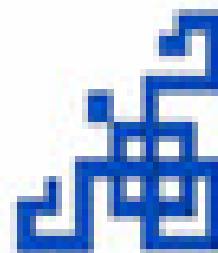
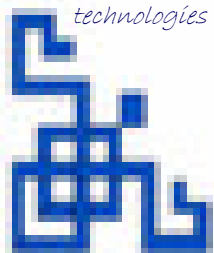


The exhibition was open for the school students on 9th and 12th of July. Students of 9th, 10th, 11th and 12th standard from nearby schools were invited.

The project exhibition was inaugurated by Mr. John Minu Mathew, General Manager (Technical), Kochi Refineries Ltd., on 8th July 2010.

Mr. John Minu Mathew, in his inaugural address, quoting our vision, emphasized that the engineering students should develop novel ideas and innovative products using advance technologies for the betterment of mankind.

Around 600 students from 11 schools visited the exhibition. The exhibition was well-received. The teachers accompanying the school students have recorded their appreciation in the visitor's book provided at the exhibition venue. Most of them felt the exhibition was informative and helped the students to have a scientific outlook.





COURSES ATTENDED BY DEC FACULTY

(MAY 2010 - AUGUST 2010)

1) MR. AJIT JOSEPH

A paper authored by Femina Abdulkader A and Mr. Ajit Joseph titled "Pre-Confirmation Neural Network for reducing the region of interest in an image for face detection", has been accepted for oral presentation in International Conference on Advances in Information and Communication Technologies ICT 2010. The conference is scheduled on September 07-09, 2010 and will be held at Kochi.

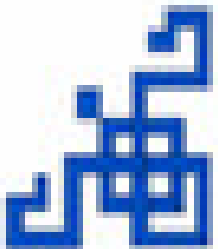

The paper is a result of one year project work of Femina Abdulkader A carried out under the guidance of Ajit Joseph of Neural Network Research Group of the Department. The paper discusses about the Face detection technique using Neural Network and the different techniques used by the authors to reduce the processing time for Face Detection.

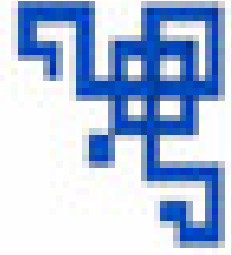
The Paper will be published in the Digital library of Springer-LNCS, Germany.

2) MS. HARSHA.A

Course Presented:

Handled one session in AICTE-ISTE Recognized STTP on "Emerging Applications in Digital Image Processing" From June 14th to June 26th, 2010 conducted in Model Engineering College Thrikkakara. The topic was "Medical Imaging Issues and New areas to work". The session covers the characteristics of medical images, Imperfections in medical Images, Key areas to work and the emerging trends in medical imaging.





3) MS.HARSHA A & MR.SREERAJ.K.P

Attended an AICTE sponsored faculty development programme on Advanced Signal Processing at NIT Calicut from 28th June to 9th July 2010. The course on Advanced Topics in Digital Signal Processing looks in depth at multimedia data processing together with its communication and security aspects.

4) MR.ROOHA RAZMID AHAMED

Attended two weeks SDP on "System Simulation Tools" at Govt. Engineering College, Kannur.

5) MS.JISA DAVID

Attended an ISTE sponsored Induction Training programme on "Teaching Excellence & Methodologies" at Govt. Engineering College, Thrissur from 21st June to 26th June 2010.

6) MS. SHEEBA KUMARI M & MS. ANITA HARAPANAHALLI

Attended a FDP on 'Soft Computing, Cloud Computing & Mobile Computing' at Technopark, Trivandrum on 24th and 25th July 2010.

New faculty

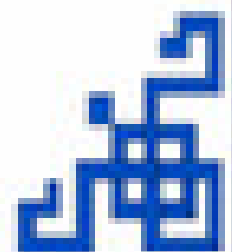
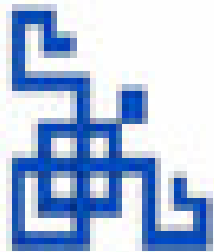
The following faculty members have joined the Department of Electronics & Communication

Dr. Praveen Shenoy

Mr. Vinod Pangracious

Mr. Rony Antony P

Ms. Preethi Bhaskar



ELECTRONAUTS INAUGURATION

The ELECTRONAUTS, Association of the Electronics & Communication Department was formally inaugurated on 30.07.2010, for the academic year 2010-11. On this occasion Dr.J.Issac, Principal gave the inaugural speech following which Prof.Asha Panicker, HOD (ECE) highlighted the achievements made by the electronauts in the previous academic year. Fr.Joel also enlightened the gathering with his words. Prof.Asha Panicker declared the newly elected leaders of the association.



Mr.Rejin (S5EC α) who has been elected as the chairman of the association, disclosed the planned activities for the following academic year. The winners of the students' mini project exhibition held at the college campus during the month of July were also declared. A few students of the S7EC (α , β) who underwent their industrial training at KARMIC, during their summer vacation put up a presentation of the same. They were awarded with certificates from the industry.

GATE 2010 QUALIFIED CANDIDATES FROM

DEPARTMENT OF ELECTRONICS & COMMUNICATION

SL.NO	STUDENTS NAME	CLASS	SCORE
1	ARUN D.	S6 EC A	89.5
2	DERIK THOMAS	S6 EC A	93.7
3	BASIL KURIAN	S6 EC A	94.6
4	AMBILY MUKUNDAN	S6 EC A	88
5	NITHIN P. FRANCIS	S6 EC B	96.8
6	VICTOR JOSE P.	S6 EC B	92.5
7	VIVEK ASHOKAN	S6 EC B	90.6
8	SANDEEP BHAT S.	S6 EC B	90.9
9	MEGHNA JAYARAJ	S6 EC B	90.6
10	SWETHA	S6 EC B	88
11	ANILA KURIAKOSE	S8 EC A	96.3
12	ANILA SATHEESH B.	S8 EC A	93
13	ARJUN NARAYANAN	S8 EC A	99.55
14	ATHIRA P. V.	S8 EC A	90.5
15	DEEPAK MOHAN	S8 EC A	94
16	DEEPIKA PRADEEP	S8 EC A	79
17	FEMINA A. A.	S8 EC A	89.6
18	HARIKRISHNAN	S8 EC A	79
19	JEPHY JOY	S8 EC A	95
20	JOSE C. A.	S8 EC A	99.3
21	JOTHISH VENUGOPAL	S8 EC B	92.7
22	PATRICIA MATHEW	S8 EC B	88.7
23	MEERA MOHAN	S8 EC B	88

STAFF

1	GINU VARGHESE	98.2
2	BASIL ABRAHAM	96.9
3	PARVATHY NANDAKUMAR	96.8
4	CHITHIRA S.	94.1
5	ANISHA NATARAJAN	91.7



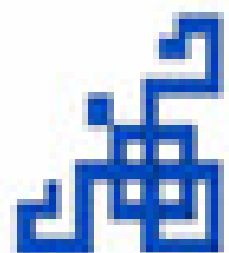
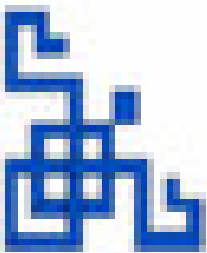
SPECIAL LECTURE SERIES ON

ADVANCED TOPICS

The Department of Electronics and Communication conducted a special lecture series on the advanced topics for the second semester M Tech students (ECE with specialization in VLSI and Embedded System ,2009 Admission) from the 27th to 30th of July. The seminars were handled by a group of selected experts, from both industry and academia, which are directly involved in the production and research works.

PURPOSE

- 1) To enhance the practical knowledge and ability of students to apply the latest technology.*
- 2) To gain priceless insight into the field of VLSI and EMBEDDED SYSTEMS from the technical presentation made by experts from reputed institutions and companies.*
- 3) Review the latest trends in technology; identify the drawbacks and suggesting solutions for the same.*





ORIENTATION PROGRAMME FOR FIRST SEMESTER M-TECH STUDENTS

A three days orientation programme was conducted for the first semester M-Tech VLSI & Embedded System students - 2010 admission from 16th August to 18th August 2010.

The main topics included were :

- Next generation networks
- System on chip
- Silicon validation
- MEMS
- 3D integration
- Multigate transistor
- Life skills
- Puzzles in physics etc.

On desk : Prof.Asha Panicker, Mr.Sreeraj.K.P, Ms.Deepthy.G.S,
Mr.VinayKumarSingh, Ms.Tressa Michael, Ms.Anu Mathew

