Gurupoornima Celebration
22nd July, 2013

Investiture Ceremony
24th July, 2013

B.Tech. Orientation Program
31st July, 2013

Book Exhibition
30th & 31st July, 2013
Associate Dean’s Address

On 16th July 2013, Associate Dean Dr. Rakesh S.G., addressed all the teaching staff members in Amriteswari hall. As is being done at the beginning of every semester, he updated the gathering about the latest achievements of staff members, results of the previous semester, placements, general discipline to be followed in the school etc. He welcomed the newly inducted faculty members on behalf of the Management post which, they were given an opportunity to introduce themselves to the gathering.

Gurupoornima Celebrations

On 22nd July 2013, the school celebrated ‘GURUPOORNIMA’ in the prayer hall. Bhajans were sung in full devotion to express gratitude towards our beloved ‘AMMA’ SADGURU SRI MATA AMRITANANDAMAYI DEVI.
Investiture Ceremony

The school witnessed the ‘Investiture Ceremony’ for the Academic Year 2013-14 on 24th July, 2013 in Amriteswari hall. The office bearers for various clubs were selected and requested to work in unison under the guidance of faculty members designated as Mentors for the various clubs headed by Ms. G.S. Jyotsna, Chair-Amritadhara.

Inauguration Programme for B.Tech. 2013 Batch

The Inauguration Programme of I Year B.Tech. classes was held on 31st July, 2013. Dr. Ganesh Sambasivam was the Chief Guest of the day. The function was graced by Poojya Swami Amritageetananda Puri, Correspondent Br. Dhanraj Swamy and Associate Dean Dr. Rakesh S.G.. Correspondent Br. Dhanraj Swamy delivered the welcome address and Poojya Swamy Amritageetanandapuri blessed the gathering. The Chief Guest stressed upon the need for multidisciplinary areas to come together for the development of research. Associate Dean Dr. Rakesh S.G. administered the oath to the new students. The students were welcomed to the Amrita family in a unique way by lighting the lamp before Goddess Saraswati.
Inauguration Programme for B.Tech. 2013 Batch

On 1st August 2013, the Orientation Program for the students of I year B.Tech. was held. The students were apprised of the academic system, rules & regulations of the University, library, hostel facilities, co-curricular and extracurricular activities. A detailed presentation covering these areas was made by Associate Dean Dr. Rakesh S.G.
### Papers Published

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<thead>
<tr>
<th>NAME</th>
<th>TITLE</th>
<th>DATE</th>
<th>NAME OF THE PUBLICATION</th>
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<tbody>
<tr>
<td>J. Amudha</td>
<td></td>
<td></td>
<td>ISSN: 0975-4024, Volume 5, No. 3 Pg: 3101-3108</td>
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<td></td>
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### Papers Presented

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Ms. Tripty Singh reviewed a research paper for the International Journal of IET Image processing and International Journal of Computer Science and Networks, ISSN:2277-5420.

Dr. K. Sangeeta and Dr. J. Amudha participated in the workshop to sensitize the Management and Teachers of Technical Institutions to tackle the ‘Menace of Sexual Crime against Women ‘organized by AICTE, Bangalore on 25th July, 2013 at M.S. Ramaiah Institute of Technology, Bengaluru.

Ms. K.K. Anisha joined as “Assistant Professor” on 17th July, 2013. She holds a M.Tech. degree in Digital Image Computing from University of Kerala. She has a teaching experience of 1.5 years. Prior to joining Amrita School of Engineering Bengaluru she was working with Amrita School of Engineering Ettimadai as ‘Assistant Professor’.

Mr. N. Rakesh joined as ‘Assistant Professor (Senior Grade)’ on 17th July, 2013. He has submitted his Ph.D. thesis in Computer Science & Engineering at PRIST University, Thanjavur. He also holds an MBA degree. He is a life member of Computer Society of India (MCSI). His research interests are in Data Communication & Computer Networks. He has a prior experience of 8 years in Research and Teaching. Before joining Amrita School of Engineering, Bengaluru he was working with KNS Institute of Technology, Bengaluru as ‘Assistant Professor’.

Ms. K.K. Anisha joined as ‘Assistant Professor’ on 17th July, 2013. She holds a M.Tech. degree in Digital Image Computing from University of Kerala. She has a teaching experience of 1.5 years. Prior to joining Amrita School of Engineering Bengaluru she was working with Amrita School of Engineering Ettimadai as ‘Assistant Professor’.

Mr. Vishwas H.N. joined as ‘Faculty Associate’ on 17th July, 2013. He has completed his M.Tech. in Computer Network Engineering from VTU.
Ms. K. Priyadharshini joined as ‘Faculty Associate’ on 31st July, 2013. She has completed M.Tech. in Embedded Systems from Amrita Vishwa Vidyapeetham. She has about 2.5 years of teaching experience and 1.5 years of industry experience.
Workshops / Seminars / Conferences Attended

<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE</th>
<th>NAME OF THE ORGANIZER</th>
<th>DATE</th>
<th>VENUE</th>
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<tr>
<td>Ms. S. Sumathi</td>
<td>2-Day Workshop on ‘Research Methodologies and Technical Writing’</td>
<td>IEEE-IISc. Student Branch</td>
<td>5th - 6th July, 2013</td>
<td>Indian Institute of Science, Bengaluru</td>
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<tr>
<td>Mr. R. Karthikeyan</td>
<td>Short Term Training Programme on ‘Advanced Process Control’</td>
<td>Sponsored by TE-QIP and organized by NIT,Trichy</td>
<td>18th - 20th July, 2013</td>
<td>NIT, Trichy</td>
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Faculty Achievements / Participation / Recognition

⇒ Dr. Shikha Tripathi reviewed one technical paper each for:
  * IEEE Control & System Graduate Research Colloquium (ICSGRC) 2013.

⇒ Ms. Sushmita Vekkot reviewed a technical paper for IET Image Processing Journal.

⇒ A short Tutorial on ‘Writing, Plotting and Presentation Tools’ was organized and delivered by Dr. Dhanesh G. Kurup on 15th July, 2013 at ASE, Bengaluru. The presentation was based on **Paper writing using Latex: Use of "TexMaker" the GUI program** available for both Windows and Linux.

⇒ A team from ASE-Bengaluru comprising of Dr. Shikha Tripathi (ECE), Dr. T.S.B. Sudarshan (CSE), Ms. Sreeja Kochuvila (EEE) and Mr. A.A. Nippun Kumaar (CSE) visited National University of Singapore (NUS), Nanyang Technological University (NTU) and Singapore University of Technology & Design (SUTD) for possible research collaboration and to know the research being carried out in these Universities in the areas of Robotics, Signal Processing and Architectures for Signal Processing. They visited the labs, interacted with the faculty and research scholars of those Institutions under the guidance of Prof. Prahlad (NUS), Prof. A.P. Vinod (NTU) and Prof. A.P. Mathur (Director, SUTD).
Other News

⇒ Maj. Gen. Braj Bhushan Jha ‘Professor- Students Affairs’ joined on 1st July, 2013. He holds M.Tech. and MBA degrees with a teaching experience of twelve years in various colleges and twenty years of industry experience in Research & Development at DRDO.

⇒ Ms. Bharati Pant joined as ‘Assistant Professor’ on 10th July, 2013. She holds a M.Tech. degree in Electronics Instrumentation & Control with 3 months of teaching experience.

⇒ Mr. H.R. Nandi Vardhan joined as ‘Assistant Professor’ on 10th July, 2013. He holds a M.E. degree in Automotive Intelligent Systems with 10 months of teaching experience and 13 months of industrial experience.

⇒ Mr. E. Chandra Mohan Goud joined as ‘Assistant Professor’ on 10th July, 2013. He holds a M.E. degree in Process Control & Instrumentation with four years of teaching experience.

⇒ Ms. B.K. Priya joined as ‘Faculty Associate’ on 10th July, 2013. She is pursuing her M.Tech. (Digital Communication Engineering) from Visvesvaraya Technological University. She has four and half years of teaching experience and over three years experience in the Industry.
Faculty Achievements / Participation / Recognition

⇒ Mr. K. Ilango reviewed:

⇒ a research paper titled “Power quality Improvement using Virtual Flux- based Direct Power Controlled Shunt Active Filter” for Elsevier - International journal of Electrical power and Energy systems.


• “A Single-Phase Multilevel Inverter Topology Employing Coupled Inductors”
• “Feasibility Analysis of Implementing DC Distribution for Industrial Areas”
• “Power Quality Enhancement of a Grid Connected Wind PMSG Using a STAT-COM- Control Scheme”
• “An Isolated Bi-Directional Converter with Improved Power Conversion Efficiency for DC Distribution Systems”

Papers Presented

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Student Achievements

⇒ The following students of S7 Mechanical Engineering participated in SAEINDIA VIRTUAL BAJA which was held at Sri Venkateshwara College of Engg, Bengaluru on 26th July, 2013 along with Mr. Vinod Kotebavi, Mentor of SAEINDIA Collegiate Club. They presented virtual design of an all terrain vehicle.

⇒ Ms. Samta Phulli
⇒ Mr. Pranav S.
⇒ Mr. Harish P.
⇒ Mr. Nadeem M.I.

SAEINDIA VIRTUAL BAJA is an intercollegiate design competition run by the Society of Automotive Engineers (SAE). Teams of students from Universities all over the world design and build small off-road cars.

Other News

⇒ Mrs. Mrudula Prashanth rejoined as ‘Faculty Associate’ on 10th July, 2013.

Dr. Neetu Srivastava has reviewed a paper titled "Investigation of effective parameters on micro-structure of Nanocrystalline ZrB2 synthesized by Mechanochemical technique" for the International Journal of Engineering, Transaction B, (MERC) Iran.

Dr. K.V. Nagaraja has reviewed following journal papers:

- “A novel integrability analysis of a generalized Riemann type hydrodynamic hierarchy” for Horizon Research Publishing Corporation, USA.
Papers Published

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Faculty Achievements / Participation / Recognition

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Placement News

With 38 students already placed, the year 2013-2014 set a distinctive benchmark in spite of the prevailing recession in the industry. Reputed industries like Amazon, Zoho, Cisco, Mu Sigma and Soliton visited Amrita University for the placement process. The details of the placements in July, 2013 are listed below.

### Summer Training

To ensure readiness for the placement process, CIR organized a 10-Day Training Programme from 20th June, 2013 to 5th July 2013. A total of 102 hours of technical training and 46 hours of aptitude training were provided to the 2014 passing out students. Apart from these, 30 hours of training in Group Discussion Skills and Mock Interviews were also arranged for the benefit of the students. CIR was well aided by the Engineering Departments of ASE, Bangalore in imparting the technical training which resulted in a smooth and effective delivery of the training schedule. For mock interviews experts from the industry were invited to interact with the students.

### Guest Lecture

Mr. K.S. Rao delivered a guest lecture on ‘Telecom Advancements’ on 24th July, 2013 in Krishna Hall. The lecture was organized by CIR for the S5 students of Electronics and Communication Engineering.

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<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Company</th>
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<th>Number of students selected</th>
<th>Branch</th>
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<tbody>
<tr>
<td>1</td>
<td>Zoho</td>
<td>4th July, 2013</td>
<td>8</td>
<td>CSE</td>
</tr>
<tr>
<td>2</td>
<td>Soliton</td>
<td>8th July, 2013</td>
<td>2</td>
<td>ECE</td>
</tr>
<tr>
<td>3</td>
<td>Amazon</td>
<td>10th July, 2013</td>
<td>1 (Internship)</td>
<td>CSE</td>
</tr>
<tr>
<td>4</td>
<td>Mu Sigma</td>
<td>13th July, 2013</td>
<td>24</td>
<td>CSE, EEE, ECE</td>
</tr>
<tr>
<td>5</td>
<td>CISCO</td>
<td>15th July, 2013</td>
<td>2 (Full time)</td>
<td>CSE</td>
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Engineering Education Summit

Mr. K. Shashidhar (CIR, Bangalore) along with Dr. Madhu Menon (CIR, Ettimadai) represented Amrita University in the Engineering Education Summit organized by PALS (PAN IIT Alumni Leadership Series).

The summit aimed at:

- Promoting debate and discussion on issues of concern in higher education at various levels
- Creating new thoughts and paradigms in areas relating to higher education
- Facilitating creation, development and evolution of higher educational institutions of global excellence

The summit was held at the IIT Madras Research Park on 27th July, 2013. TCS was the Platinum Sponsor while Kalpathi Investments was the Gold Sponsor for the event.
Department of CSE


Growing need for video surveillance in various fields, it has become very important to automate the entire process in order to save time, cost and achieve accuracy. In this paper we propose a novel and rapid approach to detect unauthorized human entity for the video surveillance system. The approach is based on bottom-up visual attention model using extended Itti Koch saliency model. Our approach includes three modules- Key frame extraction module, Visual attention model module, Human detection module. This approach permits detection and separation of the unauthorized human entity with higher accuracy than the existing Itti Koch saliency model.


Learning from Demonstration (LfD) is a technique for teaching a system through demonstration. In areas like service robotics the robot should be user friendly in terms of coding, so LfD techniques will be of greater advantage in this domain. In this paper two novel approaches, counter based technique and encoder based technique is proposed for teaching a mobile service robot to navigate from one point to another with a novel state based obstacle avoidance technique. The main aim of the work is to develop an LfD Algorithm which is less complex in terms of hardware and software. Both the proposed methods along with obstacle avoidance have been implemented and tested using Player/Stage robotics simulator.

Department of Chemistry


Sodium alginate and Lignosulphonic acid blends were prepared in various ratios (100/0, 80/20 & 60/40), in order to test the suitability of these blends for controlled drug delivery in variable pH medium using Barium chloride as crosslinking agent. The blends were characterized by TGA & DSC, in order to study thermal degradation properties and glass transition temperature. Thermal analyses of blends were found to be degrading in multiple steps compared to their pure polymers. Crystallization characteristics are investigated using the DSC curves. Further, miscibility of blends was investigated for morphological studies by SEM.
Department of English


Hanif Kureishi’s “The Buddha of Suburbia” and Michael Ondaatje's “The English Patient” deal with the identity of individuals, which is either erased or created by the external forces. One deals with the war enforced crisis of the individual and the other with the crisis due to Diaspora. In the diasporic experience, identity is both distorted and craved for. The search for identity is pursued throughout to establish the past, present and the future as a seamless whole. In the case of trauma, identity is partly or fully erased to forget a bitter past, and to cope with the future. Those who have undergone a traumatic experience, therefore, sometimes seek to deliberately erase their identity. Dislocation, which is one of the major post colonial repercussions, results in collapsed identities, for suddenly man does not know where he belongs to or for whom he is fighting. This paper analyses the identity crisis in two folds: through the two main characters in each novel and through the land (England and the desert).

Department of EEE


This paper discusses the problem of achieving stable walking of a compass gait biped robot on a slope. A reference trajectory for stable walking is generated using Lagrangian dynamics of the biped robot. It is shown that an underactuated robot can follow the reference trajectory using a control law based on feedback linearization with respect to both hip and ankle joints. The results are compared in terms of Mean Square Error (MSE). The validity of the proposed controller is carried out using simulation studies.
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Associate Dean & Head
Chief Editor

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Assistant Professor
Department of Mathematics
Editor

Mr. Rajesh M.
Assistant Professor
Department of CSE
Editor

Ms. Vasanthi
ES to Associate Dean
Editor

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60 Years of Transforming the World

Amritavarsham 60

Amritapuri, Kollam, Kerala

26-27 September 2013
“Only living and thinking in a dharmic (righteous) way will help you attain perfection and happiness.”