ABSTRACT

This talk was aimed at introducing the field of Nuclear Power to the budding engineers of the campus. It involved a multi-disciplinary approach as Mr. Goyal spoke about boilers, nuclear reactors, transmission lines, issues pertaining to civil and safety engineering in the nuclear sector. The discussions regarding the scope of engineers from different disciplines in this field were aided by a presentation that clarified the process of nuclear power plant setup. This talk kept the interest of the audience throughout as it was accompanied by his professional experiences during his work at the nuclear plant design.

The presentation covered:

Day 1

1. A basic overview about Nuclear Power and its current role in the world scene.
2. The positives and negatives of tapping energy from nuclear sources, stressing on disasters like the Three Mile Island and Chernobyl accidents, their causes and the ramifications.
Day 2

3. An extensive discussion about the construction of various types of Nuclear reactors with an insight into various areas in necessary Plant-wide Control, and it's indispensability due to terrible consequences of Nuclear processes deviating from set course.

4. The use of novel Neural Network applications in Nuclear reactors and power generators with examples.

5. Operation and Maintenance of a Nuclear Power Plant and the role of engineers.

6. Various formalities and necessary procedures like creation of PSAR (Preliminary Safety Analysis Report) and others that an engineer has to follow during the course of plant setup.

7. A Discussion on seismic analysis and seismic design of a nuclear reactor vessel, to operate normally in the wake of most natural disasters.

SPEAKER BIOGRAPHY

Mr. Ajay Goyal, a renowned BITS alumnus, from the ‘Batch ’69’ of BITS Pilani, has worked on all major types of Nuclear Power generation stations in Canada and USA, and accumulated more than 30 years of experience and in-depth knowledge in the design of electrical systems for the power plants. He last worked in the field of nuclear power at the famous Sargent and Lundy, USA before he came back to India as lead consultant (Technical) on the Andhra Pradesh State Electricity Board.
Lecture For Entrepreneurs

TOPIC                       Achieving your dreams
SPEAKER                   Mr. Phanindra Sama
DATE                        2-03-2011, 10.30 hours
VENUE                      LC 101
CAMPUS                     BITS- Pilani, K.K.Birla Goa Campus.

ABSTRACT

The talk was about RedBus, India’s largest bus ticketing company which reaches out to consumers in multiple channels. It has a growth rate of 48.23% and is awarded Start-up of the year award by IMAI in 2010. Mr. Sama spoke about all the hurdles faced at the initial stages and how they could overcome those. It was session explaining the need of a great vision. It was definitely one of the most liked and interesting talk conducted on campus.

This interactive session covered:
1. The whole idea behind the start-up and the role of management in starting up a company.
2. Why the name RedBus??
3. The initial problems faced by them and their strategies towards overcoming them and reaching out to the customers.
4. The role of ethics in the corporate world
5. HMH Principle - Honesty maturity hard-work principle; which was the principle on which this company works.
6. The company’s future targets, overcoming the stress and standing up against their competitors.

SPEAKER BIOGRAPHY

Mr. Phanindra Sama, a (EEE 1998-2002) BITS - Pilani alumnus, worked as Senior design Engineer at Texas Instruments, Design Engineer at ST Microelectronics and
is now the founder and CEO of www.redBus.in, India's largest bus ticketing company managing about 10,000+ departures every day in 15 states of the country. He was amongst the Forbes top 5 startups to be watched in 2010. He is ranked third in "India's most promising Entrepreneur" by Business World.
ABSTRACT

The theme of this lecture was to discuss experiences of Mr. Shivakumar in starting of his venture www.Roopit.com. Roopit is a meeting point for individuals to buy and sell goods amongst themselves. It bridges the existing gap between buyer (on the mobile) and the seller (on the internet). It works well online, over voice and SMS. It is crafted to be simple and quick.

This interactive session covered:

1. His Experiences in Yahoo, his trials in starting up a company to sell navigation devices and its closure due to lack of resources.
2. The whole idea behind starting Roopit, which was an opportunity to deal with used household items and make them easily accessible and sold out.
3. Hardships he had to encounter during the setting up and how he overcame those.
4. Advices on business start-ups.
5. His Support and Encouragement to the youngsters who want to become Entrepreneurs.

SPEAKER BIOGRAPHY

Mr. Shivakumar .G., a (Computer Science, 2002-2004) BITS - Pilani alumnus, worked as Senior Software Engineer and Tech Lead and Product Manager at Yahoo Internet Industry, Vice President Products and Technology, Flipkart.com and is currently the Founder and Techie at www.Roopit.Com. Roopit is a real time super fast micro classifieds tightly integrated with Voice and SMS. At Roopit, they do whatever it takes to help people buy & sell.
TOPIC                    Renewable Energy - from an Engineer's Perspective.
SPEAKER               Mr. Neeraj Kedar
DATE                12-02-2011    17:30 hours
VENUE                  LC - 101
CAMPUS                  BITS - Pilani, K.K.Birla Goa Campus

ABSTRACT
The talk gave a basic overview about the energy scenario and its role on human existence. He also provided an insight into the susceptibility by laying stress on significant aspects like sustainable development, renewable energy, clean energy. The primary, intermediate and the end use of energy and the alternatives to use of energy was also briefed in this talk

This interactive session covered:
2. The system design and system output of Solar Photovoltaics.
3. The role of engineers from different disciplines and their contributions, the glitches and future challenges that would have to be faced in the future.
4. SWOT analysis with context to the concept pertaining to solar energy.
5. Illustrations on the depiction of bypass diodes connected in parallel with solar modules, module output at different isolation level and a comparison of different solar modules and the conversion efficiencies.
6. The social context and the business context seeing the present scenario, the challenges we would be facing in the near future.

SPEAKER BIOGRAPHY
Mr. Neeraj Kedar, a ( Electrical and Electronics , 2005 ) BITS - Pilani alumnus, worked as General Manager at Ambicales Clean Technologies Pvt. Ltd., Energy
Consultant at Vaatsalya Healthcare Solutions, Fellow at Engineers for Social Impact and is Currently working as an Energy Sector Professional. He is passionate about the Energy Sector and development of Distributed Energy systems and sees Renewable Energy as the perfect way of tackling the world’s energy needs as well as global warming. He is currently an Associate at Frost and Sullivan which is a consulting and research firm. It provides firm global industry analysis, strategic market intelligence and forecasts that are designed to help grow one’s business. He has experience in Solar Energy planning and design beside working knowledge of Energy Management Techniques. His goal in life is to provide reliable electricity to low income households.
TOPIC: Computer vision and Image Processing.

SPEAKER: Dr. Vasant Manohar

DATE: 09-01-2011, 18:30 hours

VENUE: LC 101

CAMPUS: BITS – Pilani, K.K.Birla Goa Campus

ABSTRACT

These were a series of talks through video conferencing, aimed at providing an in-depth insight to the students about the latest and widely used image processing techniques for applications involving face recognition. Dr. Manohar has done extensive work on video based face recognition modelling and applications using novel techniques like facial strain maps as biometric source. This was an interesting lecture which had theory with illustrations, a number of videos and special animations included in the slides.

This interactive session covered:

1. Introduction to Image Processing, classification of Images and traits for differentiating between images.
2. How a Software can identify images and its various details like hairs, eyes and other facial parts.
3. Mathematical relations and equations underneath the identification and most appropriate algorithms to detect images and its minute details.
4. Towards the end was an interesting demonstration of how wrinkles can be detected by software and then removed from a face.
5. The talk ended with a promise of more lectures as part of the CVIP series and projects on CVIP and image processing, highly sought after by the students on campus.

SPEAKER BIOGRAPHY

Dr. Vasant Manohar, a (Computer Science, 2003) BITS – Pilani alumnus, worked as Graduate Research Assistant at University of South Florida and is now working...
as a Scientist in the Speech and Language Group, BBN Technologies. His Research Interest is in areas of computer vision, image processing, pattern recognition.