Department of Electronics & Communication Engineering

08-08-2014

· Seminar on Entrepreneur's Life & Crossroad by Shreya Shrivastava

Entrepreneurship Development Cell of Oriental College of Technology hosted a Seminar under Entrepreneurship awareness camp My Story - Entrepreneur's Life & Crossroad – Motivational Speak - To be Share by Entrepreneurs. Ms. Shreya Shrivastava Co-Founder of PsychX, Forbes 30, under 30, Child Psychology Specialist, Entrepreneur, Data Analyst at Vidan, graced the event as keynote speaker. It was a hour long event in which Ms. Shreya gave an insight into her life as an entrepreneur. The chief motive of the event was to inculcate and develop entrepreneurship culture among students and provide them with better insights about the challenges encountered down the lane by an entrepreneur. It was a bilateral session where students approached with various queries related to entrepreneurship. At the end, Ms. Shreya interacted with the whole NEC team and provided them with proper guidance.

Ms. Shreya interacting with the Students

Department of Computer Science & Engineering

Seminar on Operating System by Prof. Nilay Khare, MANIT

22-08-2014

A Guest Lecture on Embedded OS and OSD (Operating System Design) was organized by Computer Engineering Department –DYPSOET for SE, TE, BE, ME (CE & CN)-I & II year students on March 23rd, 2015 at 09:00 a.m. at Seminar Hall, Computer Engineering Department, under the banner of CSI Student Chapter. This program included a guest lecture by the expert, Dr. Sachin R. Sakhare who provided information about the basics of Operating System and Embedded Operating System; according to the syllabus he covered each and every important point which will help the students to gain theoretical as well as practical knowledge.

Students and faculties are addressed by Prof. Nilay Khare

Department of Electronics & Communication Engineering

18-09-2014

Seminar on PCB designing By IndEyes InfoTech Pvt. Ltd.

Printed circuit board (PCB) design brings your electronic circuits to life in the physical form. Using layout software, the PCB design process combines component placement and routing to define electrical connectivity on a manufactured circuit board.

As electronics moved from vacuum tubes and relays to silicon and integrated circuits, the size and cost of electronic components began to decrease. Electronics became more prevalent in consumer goods and the pressure to reduce the size and manufacturing costs of electronic products drove manufacturers to look for better solutions. Thus PCB was born.

Designing procedure of PCB Presented by Team of IndEyes InfoTech Pvt. Ltd

Department of Information Technology

Seminar on Fundamental of Modelling & Simulation by Dr. Shailendra Jain, Prof. MANIT, Bhopal

13-10-2014

An Expert talk on "Fundamentals of Modelling and Simulation" was organized in Oriental College of Technology by Dr Shailendra Jain Professor, Dept of Electrical and Electronics MANIT Bhopal. He described about the Real time Applications of MATLAB like Rocket Launching, Motion of Two Particle system and electrical system modelling etc. The Lecture was very well received by students of electrical second, pre-final and Final Year. Director OCT Dr Kavita Burse motivated students to do projects on innovative and scientific design ideas.

Address on Modelling & Simulation by Dr. Shailendra Jain

Department of Computer Science Engineering

Seminar on topics related to GATE by N' Vision

04-02-2015

A guest lecture on "GATE preparation" was conducted today for B. Tech. final year and 3rd year students. The speaker was "Mrs. Chetna Mishra" Managing Director. The speaker delivered the lecture for various opportunity and career options after B. Tech. including M. Tech, MBA, PSUs and other government services. The aim of the guest lecture was to aware students for preparation and cut-offs of GATE and PSUs.

Students are made aware with Tricks and Techniques GATE by N'Vision

Department of Information Technology

Seminar on Data Warehousing by Mr. Pankaj Upadhyay, IBM India Pvt Ltd, ORACLE SAP HANA

12-03-2015

There was a Guest lecture on Data Warehousing, Data Mining and Big Data conducted by the Department of Master of Computer Applications on 12 March, 2015. The venue provided for the session was the MCA lab, where in the session began at 9:00 AM with a brief introduction given about the guest speaker.

Objectives: To provide the students with an insight into the various concepts of Data Mining, Data Warehousing and Big Data through Industry Perspective.

To provide an opportunity to students to learn about the concepts from an industry expert.

Outcome: The students were given an insight into the industry perspective and career opportunities available in the field of Data Mining, Data Warehousing and Big data.

The students had their queries resolved regarding the various concepts that were covered during the session.

Students are acknowledged with Data Warehousing by Resource Person of IBM India Pvt Ltd

Department of Electronics & Communication Engineering

Seminar on PCB designing by IndEyes InfoTech Pvt. Ltd

16-04-2015

Printed circuit board (PCB) design brings your electronic circuits to life in the physical form. Using layout software, the PCB design process combines component placement and routing to define electrical connectivity on a manufactured circuit board.

As electronics moved from vacuum tubes and relays to silicon and integrated circuits, the size and cost of electronic components began to decrease. Electronics became more prevalent in consumer goods and the pressure to reduce the size and manufacturing costs of electronic products drove manufacturers to look for better solutions. Thus PCB was born.

Designing procedure of PCB Presented by Team of IndEyes InfoTech Pvt. Ltd

Department of Electronics & Communication Engineering

Seminar on Signal & System by Rahul Duby

11-08-2014

Signal is an electric or electromagnetic current carrying data, that can be transmitted or received. Mathematically represented as a function of an independent variable e.g. density, depth, etc. Therefore, a signal is a physical quantity that varies with time, space, or any other independent variable by which information can be conveyed. Here independent variable is time. A System is any physical set of components or a function of several devices that takes a signal in input, and produces a signal as output.

Designing procedure of PCB Presented by Team of IndEyes InfoTech Pvt. Ltd

Department of Electronics & Communication Engineering

Seminar on Digital Image Processing by Prof Robin Tiwari

17-09-2014

In computer science, digital image processing is the use of a digital computer to process digital images through an algorithm. As a subcategory or field of digital signal processing, digital image processing has many advantages over analog image processing. It allows a much wider range of algorithms to be applied to the input data and can avoid problems such as the build-up of noise and distortion during processing. Since images are defined over two dimensions (perhaps more) digital image processing may be modeled in the form of multidimensional systems

Seminar on Digital Image Processing by Prof Robin Tiwari

Department of Electronics & Communication Engineering

Seminar on E Governance by Prof Soureb Jain

27-09-2014

Electronic governance or e-governance is the application of information and communication technology (ICT) for delivering government services, exchange of information, communication transactions, integration of various stand-alone systems between government to citizen (G2C), government-to-business (G2B), government-to-government (G2G), government-to-employees (G2E) as well as back-office processes and interactions within the entire government framework. Through e-governance, government services are made available to citizens in a convenient, efficient, and transparent manner. The three main target groups that can be distinguished in governance concepts are government, citizens, and businesses/interest groups. In e-governance, there are no distinct boundaries.

Department of Mechanical Engineering

Seminar on Turbo Machines by Dr Grirish rkhsare

10-10-2014

Turbo machinery, in mechanical engineering, describes machines that transfer energy between a rotor and a fluid, including both turbines and compressors. A turbine transfers energy from a fluid to a rotor, a compressor transfers energy from a rotor to a fluid. Centrifugal pumps are also turbo machines that transfer energy from a rotor to a fluid, usually a liquid, while turbines and compressors usually work with a gas.

Turbo machines can be compared with each other by dimensional analysis. This analysis gives various types of geometrically similar parameters. Dimensional analysis is a procedure where variables representing a physical situation are reduced into groups that are dimensionless. These dimensionless groups can then be used to compare performance of various types of machines with each other.

Seminar on Turbo Machines by Dr Grirish rkhsare

Department of Electrical & Electronics Engineering

Seminar on Solar energy by Prof V K Jain

18-10-2014

Solar energy is radiant light and heat from the Sun that is harnessed using a range of ever-evolving technologies such as solar heating, photovoltaic, solar thermal energy, solar architecture, molten salt power plants and artificial photosynthesis.

It is an important source of renewable energy and its technologies are broadly characterized as either passive solar or active solar depending on how they capture and distribute solar energy or convert it into solar power. Active solar techniques include the use of photovoltaic systems, concentrated solar power and solar water heating to harness the energy. Passive solar techniques include orienting a building to the Sun, selecting materials with favourable thermal mass or light-dispersing properties, and designing spaces that naturally circulate air.

Seminar on Solar energy by Prof V K Jain

Department of Information Technology

Seminar on Cryptography by Prof Abhishek Mishra

31-10-2014

Cryptography is technique of securing information and communications through use of codes so that only those person for whom the information is intended can understand it and process it. Thus preventing unauthorized access to information. The prefix “crypt” means “hidden” and suffix graphy means “writing”.

In Cryptography the techniques which are use to protect information are obtained from mathematical concepts and a set of rule based calculations known as algorithms to convert messages in ways that make it hard to decode it. These algorithms are used for cryptographic key generation, digital signing, verification to protect data privacy, web browsing on internet and to protect confidential transactions such as credit card and debit card transactions.

Seminar on Cryptography by Prof Abhishek Mishra

Department of Mechanical Engineering

Seminar on Innovation & Product Development by Dr Shivali Verma

22-01-2015

New product development is a type of innovation which brings new value through the development of new product. All innovations are not new product development, some can be in the form of just new ideas or change in processes, the way things work etc. Product innovation is the creation and subsequent introduction of a good or service that is either new, or an improved version of previous goods or services. This is broader than the normally accepted definition of innovation that includes the invention of new products which, in this context, are still considered innovative.

Seminar on Innovation & Product Development by Dr Shivali Verma

Department of Information Technology

Workshop on Data Science by Prof Amit Kanskar

31-01-2015

Data science is an inter-disciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from structured and unstructured data. Data science is related to data mining and big data.

Data science is a "concept to unify statistics, data analysis, machine learning and their related methods" in order to "understand and analyze actual phenomena" with data. It employs techniques and theories drawn from many fields within the context of mathematics, statistics, computer science, and information science. Turing award winner Jim Gray imagined data science as a "fourth paradigm" of science (empirical, theoretical, computational and now data-driven) and asserted that "everything about science is changing because of the impact of information technology" and the data deluge. In 2015, the American Statistical Association identified database management, statistics and machine learning, and distributed and parallel systems as the three emerging foundational professional communities.

Workshop on Data Science by Prof Amit Kanskar

Department of Information Technology

Guest Lecture on Networking by Prof Getindra Rathor

09-02-2015

A computer networking is a digital telecommunications networking for sharing resources between nodes, which are computing devices that use a common telecommunications technology. Data transmission between nodes is supported over data links consisting of physical cable media, such as twisted pair or fibre-optic cables, or by wireless methods, such as Wi-Fi, microwave transmission, or free-space optical communication.

Network nodes are network computer devices that originate, route and terminate data communication. They are generally identified by network addresses, and can include hosts such as personal computers, phones, and servers, as well as networking hardware such as routers and switches. Two such devices can be said to be networked when one device is able to exchange information with the other device, whether or not they have a direct connection to each other. In most cases, application-specific communications protocols are layered (i.e. carried as payload) over other more general communications protocols.

Guest Lecture on Networking by Prof Getindra Rathor

Department of Information Technology

Workshop on Python by Prof Neha Kaurav

14-02-2015

Python is an interpreter, high-level, general-purpose programming language. Created by Guido van Rossum and first released in 1991, Python's design philosophy emphasizes code readability with its notable use of significant whitespace. Its language constructs and object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects.

Python is dynamically typed and garbage-collected. It supports multiple programming paradigms, including procedural, object-oriented, and functional programming. Python is often described as a "batteries included" language due to its comprehensive standard library.

Python was conceived in the late 1980s as a successor to the ABC language. Python 2.0, released in 2000, introduced features like list comprehensions and a garbage collection system capable of collecting reference cycles. Python 3.0, released in 2008, was a major revision of the language that is not completely backward-compatible, and much Python 2 code does not run unmodified on Python 3.

Students are addressed on Python by Prof Neha Kaurav

Department of Electrical and Electronics Engineering

Workshop on Network connection & Termination by Prof Anula Khera

25-02-2015

A network connection is made through a network card, also called an Ethernet card or interface. The reader and the host computer are connected to the network through network interfaces such as Ethernet cards and use the TCP/IP protocols to transfer data. A network termination is a device that connects the customer's data or telephone equipment to a carrier's line that comes into a building or an office. The NT device provides a connection for terminal equipment and terminal adapter equipment to the local loop. The network termination used in the specific case of an ISDN Basic Rate Interface is called an NT1.

Students are addressed on Network connection & Termination by Prof Anula Khera

Department of Electrical and Electronics Engineering

Guest Lecture on Research Paper Writing by Dr. Rangiuta Khera

03-03-2015

A research paper is a piece of academic writing based on its author's original research on a particular topic and analysis together with interpretation of research findings. Writing a research paper can be a little intimidating at times. Students, especially those new to the rigors of academia, often feel anxious about the process especially that the paper often gets assigned a big chunk of the final grade by a conscientious professor.

This lecture provides a detailed guide on how to navigate the challenge of writing a reliable research paper. It talks about recommended steps to be followed and elements to be covered in the paper. It offers tips on selecting a good topic and gathering the right information which can set research up for success. Finally, this article provides some guidelines on citation as well as on how to use free online tools, which can help deliver a sharp and clear final copy. Start writing an A+ research paper now!

Students are addressed on Research Paper Writing by Dr. Rangiuta Khera

Department of Mechanical Engineering

Seminar on Fluid Mechanics by Dr Adarsh Sachdewa

11-03-2015

An Fluid mechanics is the branch of physics concerned with the mechanics of fluids (liquids, gases, and plasmas) and the forces on them. It has applications in a wide range of disciplines, including mechanical, civil, chemical and biomedical engineering, geophysics, oceanography, meteorology, astrophysics, and biology.

It can be divided into fluid statics, the study of fluids at rest; and fluid dynamics, the study of the effect of forces on fluid motion. It is a branch of continuum mechanics, a subject which models matter without using the information that it is made out of atoms; that is, it models matter from a macroscopic viewpoint rather than from microscopic. Fluid mechanics, especially fluid dynamics, is an active field of research, typically mathematically complex. Many problems are partly or wholly unsolved and are best addressed by numerical methods, typically using computers. A modern discipline, called computational fluid dynamics (CFD), is devoted to this approach. Particle image velocimetry, an experimental method for visualizing and analyzing fluid flow, also takes advantage of the highly visual nature of fluid flow.

Students are addressed on Fluid Mechanics by Dr Adarsh Sachdewa

Department of Electronics & Communication Engineering

Seminar on Digital System by Kapil Gupta

17-03-2015

A digital system is a system that stores data in a discrete way. The opposite is an analogue (US- analog) system, which stores the data in a continuous way. Usually, digital systems store the information in a binary way; that is, every bit of information cannot have a value other than zero (off) or one (on). An advantage of digital circuits when compared to analog circuits is that signals represented digitally can be transmitted without degradation caused by noise. In a digital system, a more precise representation of a signal can be obtained by using more binary digits to represent it.

Seminar on Digital System by Kapil Gupta

Department of Electronics & Communication Engineering

Workshop on TV repairing by Prof Pratik Wankede

27-03-2015

All modern TVs are LED type and it is very important that students know not only its construction and working but also are able to repair it. LED stands for Light Emitting Diode, and an LED display is a kind of monitor display where the light source comprises light emitting diodes. This is a popular technology today and many electronic devices, including smartphones, tablets, laptops, computer monitors, and televisions, among others, use LED display technology. It is not only useful as the main display screen but also as the interaction medium between the user and the device, such as in a touch screen.

Workshop on TV repairing by Prof Pratik Wankede

Department of Electronics & Communication Engineering

Seminar on Mobile Computing by Prof Sunil Gupta

10-04-2015

All Mobile computing research is to study how mobile devices sense and learn the status of other devices and the context related to their mobility and networking to better access the Internet and/or support mobile applications in an ad hoc communication environment. Cloud computing research mainly focuses on how to manage computing, storage, and communication resources that are shared by multiple users in a virtualized and isolated environment Mobile cloud computing cannot be simply illustrated as merging mobile computing and cloud computing technologies.

Students are addressed on Mobile Computing by Prof Sunil Gupta

Department of Electronics & Communication Engineering

Seminar on Embedded Drmz Tech, Mr. Sudesh

20-08-2015

An embedded system is a computer system- a combination of a computer processor, computer memory, and input/output peripheral devices—that has a dedicated function within a larger mechanical or electrical system. It is embedded as part of a complete device often including electrical or electronic hardware and mechanical parts. Because an embedded system typically controls physical operations of the machine that it is embedded within, it often has real-time computing constraints. Embedded systems control many devices in common use today. Ninety-eight percent of all microprocessors manufactured are used in embedded systems.

Faculties are addressed on Embedded Drmz Tech, Mr. Sudesh

Department of Mechanical Engineering

Seminar on Career aspect after engineering

24-09-2015

Guest Lecture on the topic "Career Awareness Program", on 24th September, 2015 in the college premises. Mr. Arun John Matthias from Sandeepani School of Embedded System, Bengaluru, was the resource person. All the students of the Final year & Pre Final year E&C Engineering, office bearers of ISTE student and faculty members attended the talk and interacted with the resource person.

Mr. Arun, started the talk with giving a brief statistics on the current employability status of engineering students. He highlighted the growth of VLSI and Embedded industry, which has increased demand for fresh engineers. His talk also focused on the recent industry trends in core engineering field. He listed down more than fifteen roles/designation currently being practiced in the core companies; their skill set requirement, companies name, job responsibilities etc and explained the career growth ladder. Mr. Arun emphasized on the importance of right mix of knowledge, attitude and additional skills for a successful career. The talk provided the students a platform for sharing their thoughts and was endowed with proper guidance regarding all the aspects of career in core VLSI & Embedded field.

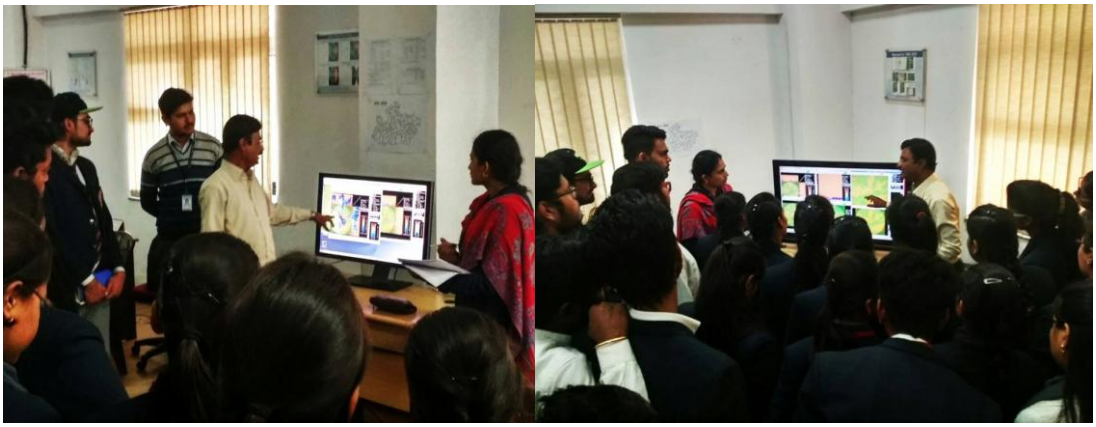
Career Awareness after engineering

Department of Electronics and communication Engineering

Seminar on Overview of SCADA System by Mr. Saurabh Shrivastav, Sr. General Manager, MPMKVV, Bhopal

17-10-2015

PLC stands for "Programmable Logic Controller" and its main function is to control the underlying system according to defined logic, (i.e. Program). SCADA on the other hand is "Supervisory Control and Data Aquisition" and its a big term i.e. it may include just data logging/reports or it can also make decisions according to acquired data at different levels. It can communicate with multiple clients and servers for Data Exchange and other defined tasks. In short SCADA provides traceability, data acquisition, reporting & secure user management.PLC is a controller and SCADA is the network that connect all the controllers with the supervisor controller (SCADA server). In this context a Guest Lecture on “Industrial Automation using Field Instruments, PLC and SCADA” is organized by EEE Department on 29 th July, 2015 for pre-final & final year students. Resource person is Mr.Madhukar Vangari , Associate Director, Prolific Systems & Technologies Pvt. Ltd, HYDERABAD. EEE HOD, Dr.M.Uma Vani welcomed the students and the resource person to the session. Guest Lecture programme provided information on the latest technologies, trends and challenges that are taking place in the areas of Industrial Automation, Control Systems and Instrumentation.



Seminar on Overview of SCADA System by Mr. Saurabh Shrivastav

Department of Electrical & Electronics Engineering

04-11-2015

Seminar on PID Controller Designing & Tuning by Dr. Pankaj Swarnkar,. MANIT, Bhopal

PID Control stands for Proportional-Integral-Derivative feedback control and corresponds to one of the most commonly used controllers used in industry. It's success is based on its capacity to efficiently and robustly control a variety of processes and dynamic systems, while having an extremely simple structure and intuitive tuning procedures. Although not comparable in performance with modern control strategies, it is still the best starting point when one has to start designing the autopilot for an unmanned aircraft. In fact, most existing attitude control functionalities found in commercial autopilots or open-source developments.

PID Controller Designing & Tuning by Dr. Pankaj Swarnkar

Department of Electronics & Communication Engineering

13-02-2016

Seminar on IOT by Mr.Vaibhav Jain, Robodia Technology Solutions Pvt Ltd

The internet of things, or IoT, is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

- Consumer applications
- Smart home
- Elder care
- Commercial application
- Medical and healthcare
- Transportation
- V2X communications

Basics of IOT shared by Mr.Vaibhav Jain, Robodia Technology Solutions Pvt Ltd

Department of Electronics & Communication Engineering

13-07-2015

Seminar on Microprocessor & Microcontroller by Prof M D Ahmed

Microprocessor is an IC which has only the CPU inside them i.e. only the processing powers such as Intel's Pentium 1,2,3,4, core 2 duo, i3, i5 etc. Microcontroller has a CPU, in addition with a fixed amount of RAM, ROM and other peripherals all embedded on a single chip. The introduction of a piece of technology called “Microprocessor” has changed the way in which we view, analyze and control the world surrounding us over the past two decades. The first commercial microprocessor is 4-bit 4004 developed by Intel and was made available in 1971.Since then, it took a phenomenal success in its development and usage. Microprocessor is considered a product of combined developments in the fields of computer architecture and Integrated Circuit (IC) fabrication. The Microcontroller is often considered as a by product in the development of microprocessor. The fabrication process and programming technique which are responsible in the development of microprocessors has also lead to the development of microcontrollers. has made the concept of personal computing very feasible.

Seminar on Microprocessor & Microcontroller by Prof M D Ahmed

Department of Computer Science Engineering

23-07-2015

Seminar on Reversible Logic Gates by Mr Abhishek Gupta

A reversible logic gate is a memory-less logic element that realizes an injective logical function. Fredkin gate, Toffoli gate, interaction gate, and switch gate are typical ones. Here, we investigate basic properties of reversible logic gates and circuits, which are needed in the following chapters. First, logical universality of them is discussed. Then, a construction method of an almost garbage-less reversible combinatorial logic circuit is explained. Reducing the total amount of garbage signals is an important problem in designing reversible logic circuits. Finally, relations among Fredkin gate, reversible logic elements with 1-bit memory (RLEMs), and reversible sequential machines (RSM) are studied. In particular, it is shown that we can construct a completely garbage-less circuit out of Fredkin gates and delay elements that simulates a given RSM. This result will be used to show universality of reversible cellular automata in the later chapters.

Seminar on Reversible Logic Gates by Mr Abhishek Gupta

Department of Computer Science

06-08-2015

Seminar on Night Vision Technology by Prof Ritu Mishra

The first thing one probably thinks of when one sees the words night vision is a spy or action movie you've seen, in which someone straps on a pair of night-vision goggles to find someone else in a dark building on a moonless night. And you may have wondered "Do those things really work? Can you actually see in the dark?"

The answer is most definitely yes. With the proper night-vision equipment, you can see a person standing over 200 yards (183 m) away on a moonless, cloudy night! Night vision can work in two very different ways, depending on the technology used.

Seminar on Night Vision Technology by Prof Ritu Mishra

Department of Electrical & Electronics Engineering

29-08-2015

Seminar on Mobile Repairing by Prof Praiteek Wankede

The mobile repairing seminar includes Generations of mobile phones, components used in mobile handsets, mobile phone hardware troubleshooting (water damage, hang, charging problems, network problems, power failure, keypad problems etc.), installation of software, flashing, use of secret codes, PC based diagnostic tools. In Smart Mobile Phone Repairing Training seminar it is targeted to provide the students most up-to-date, high tech and comprehensive with 100% Live Practical in depth training in all aspects of Mobile Phone Theory and Repair for a career as a Expert Mobile Phone Technician. Smart Mobile Phone Repairing Training Course is divided into three parts: Theory, Practical and Practice. In practical we teach various brand and model of Mobile Phone Chip Level Repairing. Smart Mobile Phone Repairing Training Courses was taught by well experienced faculties with both technical and field knowledge. With the guidance of institute many students has been successfully completed their training. We are very proud to inform that most of students after successfully completed their training, they was self employed and situated in many reputed organization.

Seminar on Mobile Repairing by Prof Praiteek Wankede

Department of Electronics & Communication Engineering

10-09-2015

Seminar on Electronics Components by Kapil Gupta

An electronic component is any basic discrete device or physical entity in an electronic system used to affect electrons or their associated fields. Electronic components are mostly industrial products, available in a singular form and are not to be confused with electrical elements, which are conceptual abstractions representing idealized electronic components.

Electronic components have a number of electrical terminals or leads. These leads connect to other electrical components, often over wire, to create an electronic circuit with a particular function (for example an amplifier, radio receiver, or oscillator). Basic electronic components may be packaged discretely, as arrays or networks of like components, or integrated inside of packages such as semiconductor integrated circuits, hybrid integrated circuits, or thick film devices. The following list of electronic components focuses on the discrete version of these components, treating such packages as components in their own right.

Seminar on Electronics Components by Kapil Gupta

Department of Mechanical Engineering

15-09-2015

Seminar on Skill Development by Prof Sangita Kumar

The National Skill Development Mission was approved by the Union Cabinet on 01.07.2015, and officially launched by the Hon'ble Prime Minister on 15.07.2015 on the occasion of World Youth Skills Day. The Mission has been developed to create convergence across sectors and States in terms of skill training activities. Key institutional mechanisms for achieving the objectives of the Mission have been divided into three tiers, which will consist of a Governing Council for policy guidance at apex level, a Steering Committee and a Mission Directorate (along with an Executive Committee) as the executive arm of the Mission. Mission Directorate will be supported by three other institutions: National Skill Development Agency (NSDA), National Skill Development Corporation (NSDC), and Directorate General of Training (DGT) – all of which will have horizontal linkages with Mission Directorate to facilitate smooth functioning of the national institutional mechanism. Seven sub-missions have been proposed initially to act as building blocks for achieving overall objectives of the Mission.

Seminar on Skill Development by Prof Sangita Kumar

Department of Mechanical Engineering

23-09-2015

Seminar on Lathe Machine by Dr. Adarsh Sachdewa

A lathe is a machine tool that rotates a work piece about an axis of rotation to perform various operations such as cutting, sanding, knurling, drilling, deformation, facing, and turning, with tools that are applied to the work piece to create an object with symmetry about that axis

athes are used in woodturning, metalworking, metal spinning, thermal spraying, parts reclamation, and glass-working. Lathes can be used to shape pottery, the best-known design being the Potter's wheel. Most suitably equipped metalworking lathes can also be used to produce most solids of revolution, plane surfaces and screw threads or helices. Ornamental lathes can produce three-dimensional solids of incredible complexity. The work piece is usually held in place by either one or two centres, at least one of which can typically be moved horizontally to accommodate varying work piece lengths. Other work-holding methods include clamping the work about the axis of rotation using a chuck or cullet, or to a faceplate, using clamps or dog clutch.

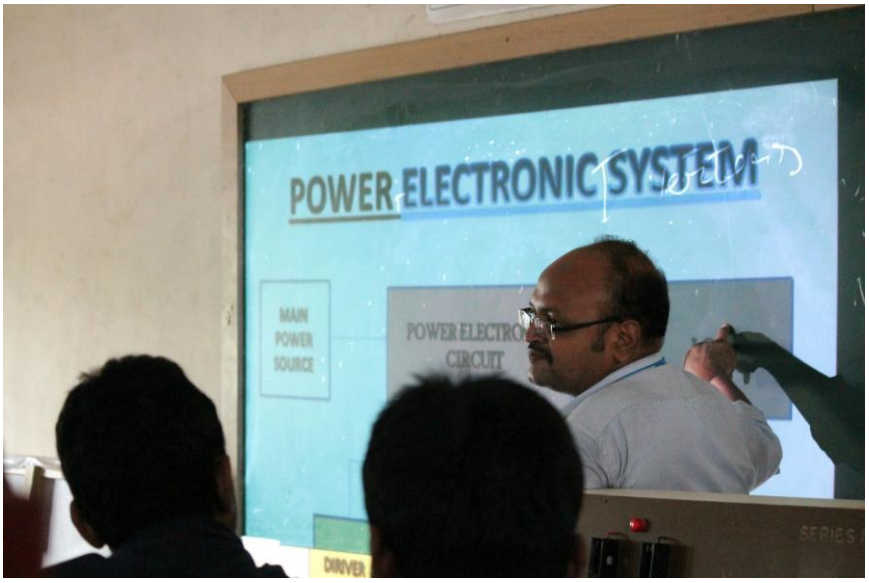
Seminar on Lathe Machine by Dr. Adarsh Sachdewa

Department of Electrical & Electronics Engineering

07-10-2015

Seminar on Power Electronics by Prof Anula Khera

Power Electronics is the study of switching electronic circuits in order to control the flow of electrical energy. Power Electronics is the technology behind switching power supplies, power converters, power inverters, motor drives, and motor soft starters. Power electronics is ushering in a new kind of industrial revolution because of its important role in energy conservation, renewable energy systems, bulk utility energy storage, and electric and hybrid vehicles, in addition to its traditional roles in industrial automation and high-efficiency energy systems.



Seminar on Power Electronics by Prof Anula Khera

Department of Electronics & communication Engineering

29-01-2016

Seminar on Radar Applications by Prof Promid Patail

The word RADAR is an acronym for RAdio Detection And Ranging, and in its simplest form it consists of a transmitted radio signal aimed by an antenna in a particular direction, and a receiver that detects the echoes off any objects in the path of the signal, he says Radars today are used to detect and track aircraft, spacecraft, and ships at sea as well as insects and birds in the atmosphere; measure the speed of automobiles; map the surface of the earth from space; and measure properties of the atmosphere and oceans.

Seminar on Radar Applications by Prof Promid Patail

Department of Civil Engineering

18-02-2015

Guest Lecture on Bridge Designing by Prof Manish Sharma

Bridges are often designed one piece at a time. Each pier (columns) and girder (beams) has to meet certain criteria for the success of the whole bridge. Structural engineers go through several steps before even coming up with ideas for their final designs. Across the globe, civil engineers have constructed bridges over such valleys and rivers, enabling the public to commute from one place to another efficiently. What we finally see is a structure carrying hundreds of vehicles from one point to another; however, the real story of a bridge is not that simple. Constructing a structure over rivers and valleys requires a lot of money, expertise, and patience. In this guide to bridge design and construction, we will get to know about the different aspects of bridge construction through many linked articles. Today, the study and advancement of bridge construction and design technology has diversified like never before, and we will discuss everything you should know about construction of bridges in this guide.

Guest Lecture on Bridge Designing by Prof Manish Sharma

Department of Electronics & communication Engineering

10-03-2016

Guest Lecture on Satellite communication by Dr. Sumit Gupta

Satellite Communication utilisation has become wide spread and ubiquitous throughout the country for such diverse applications like Television, DTH Broadcasting, DSNG and VSAT to exploit the unique capabilities in terms of coverage and outreach. The technology has matured substantially over past three decades and is being used on commercial basis for a large number of applications. Most of us are touched by satellite communication in more ways than we realise.

The potential of the technology for societal applications continue to fascinate ISRO and efforts are on to leverage the benefits of technology to the betterment of mankind. Important initiatives pursued by ISRO towards societal development include Tele-education, Tele-medicine, Village Resource Centre (VRC) and Disaster Management System (DMS) Programmes. The potential of the space technology for applications of national development is enormous.

Guest Lecture on Satellite communication by Dr. Sumit Gupta

Department of Computer Science Engineering

24-03-2016

Workshop on JAVA Programming by Getindra Rathor

Java is one of the most popular and widely used programming language and platform. A platform is an environment that helps to develop and run programs written in any programming language.
Java is fast, reliable and secure. From desktop to web applications, scientific supercomputers to gaming consoles, cell phones to the Internet, Java is used in every nook and corner.

The latest versions are Java 13, released in September 2019, and Java 11, a currently supported long-term support (LTS) version, released on September 25, 2018; Oracle released for the legacy Java 8 LTS the last free public update in January 2019 for commercial use, while it will otherwise still support Java 8 with public updates for personal use up to at least December 2020. Oracle (and others) highly recommend uninstalling older versions of Java because of serious risks due to unresolved security issues.[20] Since Java 9 (and 10 and 12) is no longer supported, Oracle advises its users to immediately transition to the latest version (currently Java 13) or an LTS release.

Workshop on JAVA Programming by Getindra Rathor

Department of Computer Science Engineering

25-02-2016

Seminar on Component Based Software Engineering by Dr.Mahesh Pawar, Assocoate Professor(UIT RGPV),Bhopal

Software engineering is important because specific software is needed in almost every industry, in every business, and for every function. It becomes more important as time goes on – if something breaks within your application portfolio, a quick, efficient, and effective fix needs to happen as soon as possible.

software engineers (SOC 15-1032) do the following: Research, design, develop, and test operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computing applications.

Component Based Software Engineering by Dr. Mahesh Pawar

Department of Computer Science & Engineering

30-08-2016

Seminar on RDBMS and Oracle 12c by Mr.Satish Asnani, BHEL

RDBMS stands for Relational Database Management System. RDBMS is the basis for SQL, and for all modern database systems like MS SQL Server, IBM DB2, Oracle, MySQL, and Microsoft Access.

A Relational database management system (RDBMS) is a database management system (DBMS) that is based on the relational model as introduced by E. F. Cod.

Many popular databases currently in use are based on the relational database model.

Inventory, Supply chain management, Hospitals, Schools, Library there are scores of places where data and historical data are important not to mention data mining and warehousing becomes imperative for faster access of information. There you go application of DBMS, RDBMS in real life scenario.

Top 12 Features of Oracle 12C

01. Pluggable Databases through Database Consolidation
    - •Upgraded
    - •Patched
    - •Monitored
    - •Tuned
    - •RAC Enabled
    - •Adjusted
    - •Backed up and
    - •Data Guarded.
02. Redaction Policy.
03. Top N Query and Fetch and offset Replacement to Rownum.
04. Adaptive Query Optimization and Online Stats Gathering.
05. Restore a Table easily through RMAN.
06. Size Limit on Varchar2, NVarchar2, and Raw Data Types increased.
07. Inline PL/SQL Functions and Procedures.
08. Generated as Identity/Sequence Replacement.
09. Multiple Indexes on a Single Column.
10. Online Migration of Table Partition or Sub Partition.
11. Temporary UNDO.
12. In Database Archiving.

Overview of Oracle 12c by Mr.Satish Asnani, BHEL

Department of Electronics & Communication Engineering

03-09-2016

Seminar on PCB designing By IndEyes InfoTech Pvt. Ltd.

Printed circuit board (PCB) design brings your electronic circuits to life in the physical form. Using layout software, the PCB design process combines component placement and routing to define electrical connectivity on a manufactured circuit board.

As electronics moved from vacuum tubes and relays to silicon and integrated circuits, the size and cost of electronic components began to decrease. Electronics became more prevalent in consumer goods and the pressure to reduce the size and manufacturing costs of electronic products drove manufacturers to look for better solutions. Thus PCB was born.

PCB designing Resource Person By IndEyes InfoTech Pvt. Ltd.

Department of Electronics & Communication Engineering

31-10-2016

Seminar on CMOS VLSI DESIGN By Abhigyanam Giri

Complementary metal–oxide–semiconductor (CMOS), also known as complementary-symmetry metal–oxide–semiconductor (COS-MOS), is a type of MOSFET (metal–oxide–semiconductor field-effect transistor) fabrication process that uses complementary and symmetrical pairs of p-type and n-type MOSFETs for logic functions. CMOS technology is used for constructing integrated circuit (IC) chips, Including microprocessors, microcontrollers, memory chips (including CMOS BIOS), and other digital logic circuits. CMOS technology is also used for analog circuits such as image sensors (CMOS sensors), data converters, RF circuit (RF CMOS) and highly integrated transceivers for many types of communication. MOSFET semiconductor devices in VLSI chips. As of 2011, 99% of IC chips, including most digital, analog, and mixed signal ICs, are fabricated using CMOS technology.

Addressed on CMOS VLSI DESIGN and
MOSFET semiconductor devices in VLSI chips

Department of Computer Science Engineering

25-11-2016

Seminar on Application areas of IOT By Mr Praveen Shankhare

Apart from Customer and Commercial Application areas of IoT some other areas are :

- Industrial applications
- Manufacturing
- Agriculture
- Infrastructure applications
- Metropolitan scale deployments
- Energy management
- Environmental monitoring
- Living Lab

Addressed on Application areas of IOT By Mr Praveen Shankhare

Department of Mechanical Engineering

01-03-2017

Seminar on Turbo Machine By Prof. Manish Joshi

Turbo machinery, in mechanical engineering, describes machines that transfer energy between a rotor and a fluid, including both turbines and compressors. While a turbine transfers energy from a fluid to a rotor, a compressor transfers energy from a rotor to a fluid.[1][2]

These two types of machines are governed by the same basic relationships including Newton's second Law of Motion and Euler's pump and turbine equation for compressible fluids. Centrifugal pumps are also turbo machines that transfer energy from a rotor to a fluid, usually a liquid, while turbines and compressors usually work with a gas.

Any device that extracts energy from or imparts energy to a continuously moving stream of fluid can be called a turbo machine. Elaborating, a turbo machine is a power or head generating machine which employs the dynamic action of a rotating element, the rotor; the action of the rotor changes the energy level of the continuously flowing fluid through the machine. Turbines, compressors and fans are all members of this family of machines.[4]

In contrast to positive displacement machines (particularly of the reciprocating type which are low speed machines based on the mechanical and volumetric efficiency considerations), the majority of turbo machines run at comparatively higher speeds without any mechanical problems and volumetric efficiency close to one hundred percent.

Seminar on Turbo Machine By Prof. Manish Joshi

Department of Electronics & Communication Engineering

07-04-2017

Seminar on Embedded System By IndEyes Infotech Pvt. Ltd.

The main focus on the different solutions required in smart city projects

- Networking Solutions
- Structured Cabling Systems both Copper and Fiber Solutions
- Campus Connectivity
- Industrial Networking
- Switching and Routing Solutions
- Datacenter Networking
- Network Audit, Testing and Reporting
- Network Optimisation Solutions
- Recycling and Reuse Methods

Servers & Storage Systems

Focused solutions for SME and Enterprise Segments are

- End user Computing Systems – Thin Clients, Zero Clients, Ultra Form Factor PCs, Laptops and Tablets
- Servers – Rack Servers, High Density Rack Servers, Cloud Servers
- Storage Solutions – NAS systems, SAN Solutions, Cloud Storage Solutions
- Backup Solutions – Backup Hardwares, Backup Softwares, Backup as a Services, Remote Backup Systems
- Private File Sharing and Storage systems

Virtualisation and Cloud

For a small business to an enterprise class requirement for servers and applications.

- Planning a virtualisation systems
- Virtualisation Solutions from Industry Leaders
- Implementation Services
- Monitoring and maintaining the systems

Wireless Solutions

Flexible workspace and Time is what every one wants when comes to work.Days are gone sitting at one place and work for a whole day. Businesses require to deliver the commitments while providing the best comfort to its employees. And that solution, once was at premium and volatile is now at a very nominal and stable solutions.

We offer a wide options for wireless networking systems from many oems to fit the need of the business

- Wifi for a small office environment
- Campus Wireless Access
- Wireless Network Security Solutions
- Multi Branch Wifi and Security Solutions
- Wifi Authentication Solutions- Radius and AAA Servers
- Hotspot Solutions.

Unified Communications

The solutions include the following

- IP Telephone systems-IP PBX Systems, Private Messengers,
- IP Phones and Soft phones
- Video Conferencing Solutions
- Private collaboration solutions
- Intranet solutions

Connectivity Solutions

Solutions and services include

- VPN Products and Solutions
- Wireless Point to Point, Point to Multi Point Solutions Ranging from 500m to 75 kms
- Internet Connectivity and Remote Access Solutions
- Consulting and Solution Design
- Mobile Ethernet Products

Surveillance and Security

- IP Surveillances Systems
- Video Management Systems
- Video Wall Solutions
- Video Storage Solutions
- Video Analytics systems

Our solutions fit to

- Retail industry
- Manufacturing Companies
- Educations Segments
- Campus
- Outdoor Areas
- BPOs and IT Companies

Embedded System By Mr. Abhigyanam from IndEyes Infotech Pvt. Ltd

Department of Electrical & Electronics Engineering

11-04-2017

Career aspect after engineering at B K School of Business Management Ahmadabad

First of all, doing an MBA or any other management course after engineering will definitely boost career prospects. Engineering degree will help you gain technical knowledge.

A good management program will help you acquire key soft skills and management skills. Such skills are highly valued by employers.

These days, it is not uncommon to see engineering graduates go for MBA and other management programs after graduation. In fact MBA is a very popular PG course among engineering students and graduates. After completing technical course of engineering, many graduates prefer to acquire management skills, rather than going for advanced technical courses like M.Tech. or M.Sc.

First of all, doing an MBA or any other management course after engineering will definitely boost career prospects. Engineering degree will help you gain technical knowledge. Engineering education doesn't focus much on soft skills and management skills though. A good management program will help you acquire key soft skills and management skills. Such skills are highly valued by employers. In short, career prospects will get a boost after one completes MBA or similar high value course.

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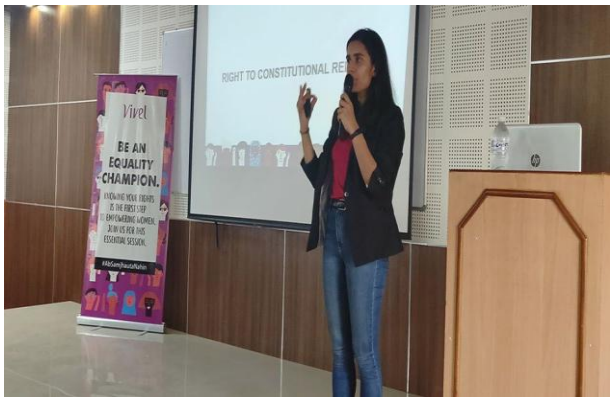


Openings and Career aspect after Engineering

Department of Electronics & Communication Engineering

15-04-2017

Seminar on Embedded Drmz Tech by Mr. Sudesh

An embedded system is a computer system—a combination of a computer processor, computer memory, and input/output peripheral devices—that has a dedicated function within a larger mechanical or electrical system. It is embedded as part of a complete device often including electrical or electronic hardware and mechanical parts. Because an embedded system typically controls physical operations of the machine that it is embedded within, it often has real-time computing constraints. Embedded systems control many devices in common use today.[3] Ninety-eight percent of all microprocessors manufactured are used in embedded systems.

Addressed students by Mr. Sudesh from Embedded Drmz Tech

Department of Electronics & Communication Engineering

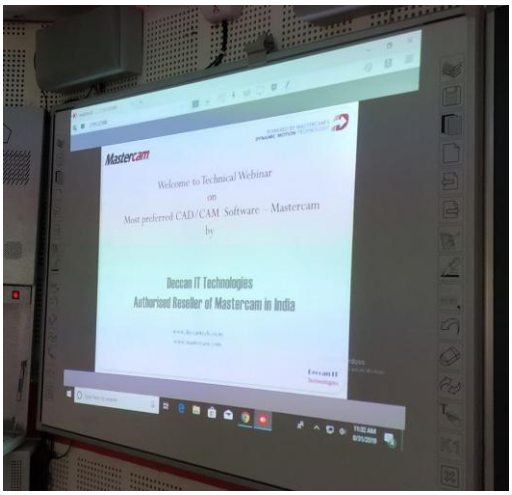
17-08-2017

Workshop on PCB designing, INTERNAL

Printed circuit board (PCB) design brings your electronic circuits to life in the physical form. Using layout software, the PCB design process combines component placement and routing to define electrical connectivity on a manufactured circuit board.

As electronics moved from vacuum tubes and relays to silicon and integrated circuits, the size and cost of electronic components began to decrease. Electronics became more prevalent in consumer goods and the pressure to reduce the size and manufacturing costs of electronic products drove manufacturers to look for better solutions. Thus PCB was born.

How to design a PCB and what setup and materials are required for a lab. This is the most emerging topic for designing the Integrated Circuit.



PCB designing, (INTERNAL)

Department of Electrical & Electronics Engineering

27-08-2016

Seminar on Research Paper Writing by Dr Ranjeeta Khare

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Seminar on Research Paper Writing by Dr Ranjeeta Khare

Department of Electronics & Communication Engineering

09-09-2016

Seminar on VLSI Design by Dr Satrughan Kumar

Printed circuit board (PCB) design brings your electronic circuits to life in the physical form. Using layout software, the PCB design process combines component placement and routing to define electrical connectivity on a manufactured circuit board.

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Seminar on VLSI Design by Dr Satrughan Kumar

Department of Computer Science Engineering

30-09-2016

Workshop on C&C++ Programming by Prof Joy Bhattaharyajee

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Workshop on C&C++ Programming by Prof Joy Bhattaharyajee

Department of Electrical & Electronics Engineering

13-10-2016

Expert Lecture on DC Machine by Dr Ranjeeta Khare

Printed circuit board (PCB) design brings your electronic circuits to life in the physical form. Using layout software, the PCB design process combines component placement and routing to define electrical connectivity on a manufactured circuit board.

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Expert Lecture on DC Machine by Dr Ranjeeta Khare

Department of Electrical & Electronics Engineering

15-16 December 2016

International Conference on Advances in Engineering Research & Applications

Printed circuit board (PCB) design brings your electronic circuits to life in the physical form. Using layout software, the PCB design process combines component placement and routing to define electrical connectivity on a manufactured circuit board.

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International Conference on Advances in Engineering Research & Applications

Department of Electronics & Communication Engineering

28-04-2017

Seminar on PCB Designing, INTERNAL

Printed circuit board (PCB) design brings your electronic circuits to life in the physical form. Using layout software, the PCB design process combines component placement and routing to define electrical connectivity on a manufactured circuit board.

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How to design a PCB and what setup and materials are required for a lab. This is the most emerging topic for designing the Integrated Circuit.

Seminar on PCB Designing, INTERNAL

Department of Computer Science & Engineering

31-08-2017

Seminar on Importance of Data Science and its futures by Mr. Chandan Kr. Singh, HP Enterprises, Hydrabad

What is Data Science?

Use of the term Data Science is increasingly common, but what does it exactly mean? What skills do you need to become Data Scientist? What is the difference between BI and Data Science? How are decisions and predictions made in Data Science? These are some of the questions that will be answered further.

First, let's see what is Data Science. Data Science is a blend of various tools, algorithms, and machine learning principles with the goal to discover hidden patterns from the raw data. How is this different from what statisticians have been doing for years?

The answer lies in the difference between explaining and predicting.

Why We Need Data Science

- Traditionally, the data that we had was mostly structured and small in size, which could be analyzed by using the simple BI tools. Unlike data in the traditional systems which was mostly structured, today most of the data is unstructured or semi-structured. Let's have a look at the data trends in the image given below which shows that by 2020, more than 80 % of the data will be unstructured.

Importance of Data Science and its futures by Mr. Chandan Kr. Singh

Department of Information Technology

01-09-2017

Seminar on Data Warehousing & Data Analytics by Net link Software Private Limited

A Data Warehousing (DW) is process for collecting and managing data from varied sources to provide meaningful business insights. ... The data warehouse is the core of the BI system which is built for data analysis and reporting. It is a blend of technologies and components which aids the strategic use of data.

- History of Data warehouse
- How Data warehouse works?
- Types of Data Warehouse
- General stages of Data Warehouse
- Components of Data warehouse

Data analytics (DA) is the process of examining data sets in order to draw conclusions about the information they contain, increasingly with the aid of specialized systems and software. Data analytics technologies and techniques are widely used in commercial industries to enable organizations to make more-informed business decisions and by scientists and researchers to verify or disprove scientific models, theories and hypotheses.

Addressed students on Data Warehousing & Data Analytics

Department of Computer Science & Engineering

05-10-2017

Seminar Application of Data Analytics by MR, Nitin Tiwari, MPHEQIP

What Is Data Analytics?

Data analytics is the science of analyzing raw data in order to make conclusions about that information. Many of the techniques and processes of data analytics have been automated into mechanical processes and algorithms that work over raw data for human consumption.

Data analytics techniques can reveal trends and metrics that would otherwise be lost in the mass of information. This information can then be used to optimize processes to increase the overall efficiency of a business or system.

The applications of data analytics as Follows:

- Policing/Security.
- Manage Risk.
- Delivery Logistics.
- Web Provision.
- Proper Spending.
- Customer Interactions.
- City Planning.
- Healthcare.

Application of Data Analytics by MR, Nitin Tiwari

Department of Computer Science & Engineering

11-10-2017

Seminar on Let's Analyze Data Analytics by Mr. Devesh Nagar, Inductis India Pvt. Ltd. Gurugram, Haryana

Data analytics (DA) is the process of examining data sets in order to draw conclusions about the information they contain, increasingly with the aid of specialized systems and software. Data analytics technologies and techniques are widely used in commercial industries to enable organizations to make more-informed business decisions and by scientists and researchers to verify or disprove scientific models, theories and hypotheses.

Addressed on Analyze Data Analytics by Mr. Devesh Nagar

Department of Information Technology

10-01-2018

Seminar on IOT By IndEyes InfoTech Pvt. Ltd.

The EC Department has organized a guest lecture on "IOT"
Areas of discussion were:

1. Basics of IOT
2. Importance of IOT
3. IOT based Smart city
4. Trends and Characteristics
5. Future development in IOT
6. Enabling technologies for IOT

Students are addressed on IOT By IndEyes InfoTech Pvt. Ltd.

Department of Mechanical Engineering

08-02-2018

Expert Lecture on Advanced Mechanical Engineering Software course and its Applicationsby Mr Vivek Verma, SOFTCAD Automation, Bhopal

The country's economy has begun to show signs of improvement following the impact of marked currency depreciation in 2018, with inflation back into single digits and interest rates on the way down. The Central Bank of the Republic of Turkey announced a cut in rates once again at its regular rate-setting meeting last month, by 200 basis points to 12%. Turkish President Recep Tayyip Erdoğan unveiled the country's first domestic car on 27 December 2019. The first model, said to be designed by Italian design company Pininfarina, will be a C-segment electric sport utility vehicle based on the TOGG platform; it is expected to go into mass production in July 2022 at the Bursa plant, according to IHS Market light-vehicle production forecast data.

Expert Lecture on Advanced Mechanical Engineering Software course and its Applicationsby Mr Vivek Verma

Department of Mechanical Engineering

21-02-2018

Expert talk on Vehical Architecture, Volvo Eicher Commerical Vehical Ltd Pithampur Indore

The country's economy has begun to show signs of improvement following the impact of marked currency depreciation in 2018, with inflation back into single digits and interest rates on the way down. The Central Bank of the Republic of Turkey announced a cut in rates once again at its regular rate-setting meeting last month, by 200 basis points to 12%. Turkish President Recep Tayyip Erdoğan unveiled the country's first domestic car on 27 December 2019. The first model, said to be designed by Italian design company Pininfarina, will be a C-segment electric sport utility vehicle based on the TOGG platform; it is expected to go into mass production in July 2022 at the Bursa plant, according to IHS Market light-vehicle production forecast data.

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Students are addressed on Vehical Architecture, Volvo Eicher Commerical Vehical Ltd Pithampur Indore

Department of Computer Science & Engineering

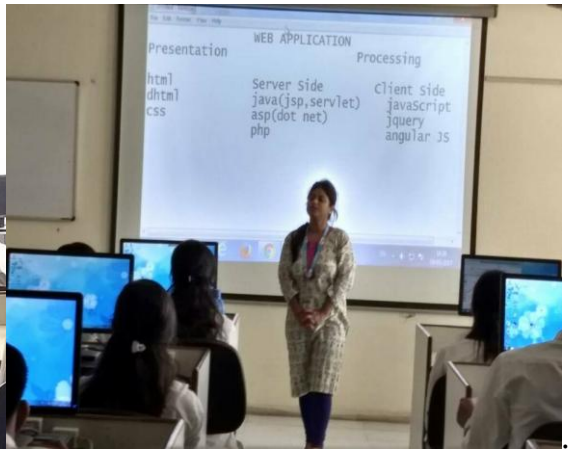
07-03-2018

Two days Workshop on angular JS

Angular JS is a JavaScript framework developed by Google. It is creating ripples across the industrial circle. Organizations have started rewriting their web postures with angular JS. This is especially true with the Single Page Architecture (SPA), This is revolutionizing the industry due to its primary advantage with mobile related developments. Due to the advantages of Angular JS, companies prefer this framework for all their developments. Being a reasonably new technology and having a bunch of early adopters for this technology, there is a high demand for individuals who understand this framework and can implement this on the client side.

Topics to be Covered in the Workshop

• Introduction	• Environment Setup
• MVC Architecture	• Create first Angular JS Application
• Directives	• Expressions
• Controllers	• Filters
• Tables	• HTML DOM
• Modules	• Forms
• AJAX	• Views
• Scopes	• Services
• Dependency Injection	• Custom Directives



Two days Workshop on angular JS

Department of Electrical & Electronics Engineering

23-03-2018

Seminar on Harmonics in Electrical System and their Mitigation by Mr. Nikhil Kaushik Faculty, PCRA

For the various types of the active, passive and the hybrid in shunt, series or a combinations of the filter and UPQC that is unified power quality conditioner in single-phase two-wire, three-phase there are different permutation combinations, single-phase two-wire, three-phase three-wire, three-phase four-wire are possible. Power quality improvement technique is used in newly designed and developed components such as IPQC.

Students are addressed on Harmonics in Electrical System and their Mitigation by Mr. Nikhil Kaushik

Department of Information Technology

12-04-2018

Seminar on IOT, BY SENIOR ENGG GE USA

The EC Department has organized a guest lecture on "IOT"
Areas of discussion were:

1. Basics of IOT
2. Importance of IOT
3. IOT based Smart city
4. Trends and Characteristics
5. Future development in IOT
6. Enabling technologies for IOT

Applications and importance of IOT, By Senior Engineer, GE USA

Department of Civil Engineering

05-07-2017

Seminar on Plastic as Soil Stabilizer

Angular Soil stabilization is a process which improves the physical properties of soil, such as increasing shear strength, bearing capacity, etc. The foundation is very important for any structure & it has to be strongly enough to support the structure. Expansive soils such as black cotton soil have always problem of swelling, shrinkage, & unequal settlement. Plastic waste is become one of the major problems for the world. So, recommended that use of plastic waste for stabilization of soils and using plastic as soil stabilizer would reduce the problem of disposing plastic waste & also reduce facing environmental problems. These reviews the researches on stabilization of soil using waste plastic material in improving its strength.

Seminar on Plastic as Soil Stabilizer

Department of Civil Engineering

14-07-2017

Seminar on Earth quake Resistance Structure

Earthquake-resistant or aseismic structures are designed to protect buildings to some or greater extent from earthquakes. While no structure can be entirely immune to damage from earthquakes, the goal of earthquake-resistant construction is to erect structures that fare better during seismic activity than their conventional counterparts. According to building codes, earthquake-resistant structures are intended to withstand the largest earthquake of a certain probability that is likely to occur at their location.This means the loss of life should be minimized by preventing collapse of the buildings for rare earthquakes while the loss of the functionality should be limited for more frequent ones.[1]

To combat earthquake destruction, the only method available to ancient architects was to build their landmark structures to last, often by making them excessively stiff and strong.

Currently, there are several design philosophies in earthquake engineering, making use of experimental results, computer simulations and observations from past earthquakes to offer the required performance for the seismic threat at the site of interest. These range from appropriately sizing the structure to be strong and ductile enough to survive the shaking with an acceptable damage, to equipping it with base isolation or using structural vibration control technologies to minimize any forces and deformations.

Seminar on Earth quake Resistance Structure

Department of Civil Engineering

01-08-2017

Seminar on Automated Highway System (AHS)

The demand on our overburdened highway system is increasing every day. Traffic is snarled, drivers are snarling. What should be a routine 20-minute trip can take hours, as traffic congestion multiplies the effects of individual variations in driving performance "as determined by physical abilities, knowledge, experience and, indeed, personality." (1) We lose control over our plans and schedules; we rush because we're late; we cause accidents and create ill will through recklessness and bad temper. This, in turn, makes the highway system even more sluggish, unpredictable, and nonresponsive to driver needs.

A solution is waiting in the wings. The Automated Highway System (AHS) program, stepped up in response to the mandate of the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) to "develop an automated highway and vehicle prototype from which future fully automated intelligent vehicle-highway systems can be developed," will provide the vision and technology to make highway driving efficient, safe, and predictable.

In an automated highway system, the car will be guided by the road rather than by the driver. Sensors and communication devices will link the road and the vehicle to maximize driving performance. Driver error will be reduced and ultimately, with full implementation, eliminated.

"This high-performance highway system, seen as the next major evolutionary stage of surface transportation, is expected to be the focus of major U.S. implementation efforts early in the next century, much like the Interstate Highway System program was the focus of the last half of this century.

Seminar on Automated Highway System

Department of Mechanical Engineering

10-08-2017

Seminar on Hydrogen Wire Car

Angular JS is a JavaScript framework developed by Google. It is creating ripples across the industrial circle. Organizations have started rewriting their web postures with angular JS. This is especially true with the Single Page Architecture (SPA), This is revolutionizing the industry due to its primary advantage with mobile related developments. Due to the advantages of Angular JS, companies prefer this framework for all their developments. Being a reasonably new technology and having a bunch of early adopters for this technology, there is a high demand for individuals who understand this framework and can implement this on the client side.

Topics to be Covered in the Workshop

• Introduction	• Environment Setup
• MVC Architecture	• Create first Angular JS Application
• Directives	• Expressions
• Controllers	• Filters
• Tables	• HTML DOM
• Modules	• Forms
• AJAX	• Views
• Scopes	• Services
• Dependency Injection	• Custom Directives

Seminar on Hydrogen Wire Car

Department of Mechanical Engineering

16-08-2017

Seminar on Rocket Propellant

Angular JS is a JavaScript framework developed by Google. It is creating ripples across the industrial circle. Organizations have started rewriting their web postures with angular JS. This is especially true with the Single Page Architecture (SPA), This is revolutionizing the industry due to its primary advantage with mobile related developments. Due to the advantages of Angular JS, companies prefer this framework for all their developments. Being a reasonably new technology and having a bunch of early adopters for this technology, there is a high demand for individuals who understand this framework and can implement this on the client side.

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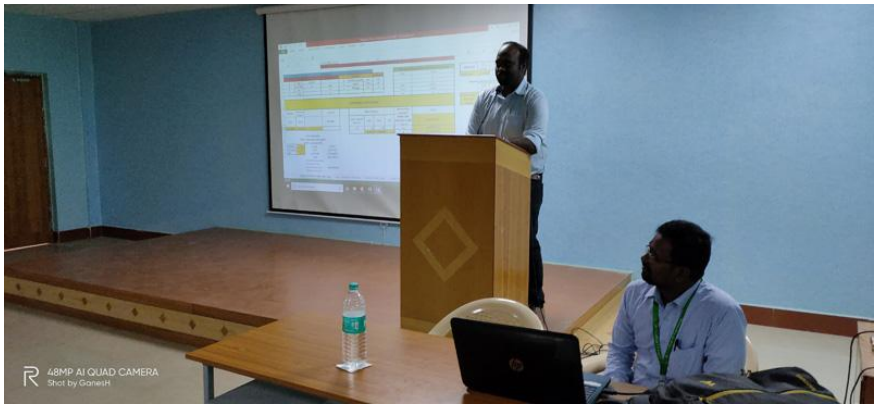

Seminar on Rocket Propellant

Department of Electronics & communication Engineering

07-09-2017

Workshop on Robotics Designing

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• AJAX	• Views
• Scopes	• Services
• Dependency Injection	• Custom Directives

Workshop on Robotics Designing

Department of Electronics & communication Engineering

10-01-2018

Seminar on Research Paper Writing

Angular JS is a JavaScript framework developed by Google. It is creating ripples across the industrial circle. Organizations have started rewriting their web postures with angular JS. This is especially true with the Single Page Architecture (SPA), This is revolutionizing the industry due to its primary advantage with mobile related developments. Due to the advantages of Angular JS, companies prefer this framework for all their developments. Being a reasonably new technology and having a bunch of early adopters for this technology, there is a high demand for individuals who understand this framework and can implement this on the client side.

Topics to be Covered in the Workshop

• Introduction	• Forms
• Directives	• Views
• Controllers	• Services
• Tables	• Custom Directives
• Modules	
• Scopes	

Seminar on Research Paper Writing

Department of Computer Science & Engineering

23-01-2018

Expert Lecture on Data Science By Prof. Saurabh Jain UPES Dehradun

Angular JS is a JavaScript framework developed by Google. It is creating ripples across the industrial circle. Organizations have started rewriting their web postures with angular JS. This is especially true with the Single Page Architecture (SPA), This is revolutionizing the industry due to its primary advantage with mobile related developments. Due to the advantages of Angular JS, companies prefer this framework for all their developments. Being a reasonably new technology and having a bunch of early adopters for this technology, there is a high demand for individuals who understand this framework and can implement this on the client side.

Expert Lecture on Data Science By Prof. Saurabh Jain UPES Dehradun

Department of Electronics & Communication Engineering

28-04-2018

Workshop on PCB Designing & Embedded SYSTEM, By IndEyes InfoTech Pvt. Ltd.

As electronics moved from vacuum tubes and relays to silicon and integrated circuits, the size and cost of electronic components began to decrease. Electronics became more prevalent in consumer goods, and the pressure to reduce the size and manufacturing costs of electronic products drove manufacturers to look for better solutions. Thus PCB was born.

FR4

Copper

Solder mask

Silkscreen

Terminology

- Annular ring
- DRC
- Drill hit
- Finger.
- Mouse bites
- Pad
- Panel
- Paste stencil

Hands on Practice on PCB Designing & Embedded SYSTEM, By IndEyes InfoTech Pvt. Ltd.

Department of Electronics & Communication Engineering

24-08-2018

Seminar on CMOS VLSI DESIGN

This Seminar mainly focused on circuit design and the techniques used to minimize capacitive and inductive noise. she also introduced how to integrate analog circuits on large digital chips presents significant challenges, primarily due to substrate noise coupling. she differentiated a strategy for making analog circuits less sensitive to substrate bounce. she also summarized that CMOS processes move into the nanoscale—that is, less-than-100-nm—range, it becomes increasingly difficult to maintain the energy efficiency for medium- to high-accuracy analog circuits, Accuracies may decrease as the technology scales down. Analog-chip designers can improve energy efficiency using different approaches, from selecting the optimum CMOS technology to clever system-level design.

Students are addressed by Basics of CMOS VLSI DESIGN

Department of Electronics & Communication Engineering

07-09-2018

Seminar on IOT by Mr Abhigyanm Giri Indyes Indore

The internet of things, or IoT, is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

- Consumer applications
- Smart home
- Elder care
- Commercial application
- Medical and healthcare
- Transportation
- V2X communications

Basics of by Mr Abhigyanm Giri Indyes Indore

Department of Electrical & Electronics Engineering

17-10-2018

Seminar on SOLAR POWER PLANT BY Mr SS Gadare GM, SunOmega Bhopal

An Seminar on “Solar Power plants" was conducted in the Conference Hall

The speaker discussed in details about the need of designing the solar panel and other accessories so as to make the design user friendly.

Students are addressed on SOLAR POWER PLANT

Department of Electronics & Communication Engineering

08-11-2018

Seminar on OPTICAL FIBRE By Mr Alok Bharti Executive AAI Bhopal

To make the students aware of the new technologies and other environmental and technical developments, extension lectures are organized from time to time by inviting enlightened professionals from industries and other institutes of international repute.

In order to bridge the gap between the Industry and the Institutes and also to spread the awareness about creating quality in the manufacturing processes, a seminar on the topic 'E-Foundry: Casting Design and Simulation' was organized wherein the representatives of Industry and Academia were invited.

Students are acknowledged with the OPTICAL FIBRE and its applications.

Department of Electronics & Communication Engineering

09-01-2019

Expert Lecture on Digital Manufacturing system and tool Design Eicher tractor, Mandideep Bhopal

The physical process of manufacturing technology, the original scientific methods and principle can be used for the analysis of manufacturing technology. The physical process of materials processing and semiconductors can be explained by physical theory, for example, the interpretation of atomic dislocation theory on plastic deformation and the interpretation of lattice physics on the transistor. At the same time, when metals are deformed in a plastic deformation process (such as machining and forging), we use a general standard method (such as finite element analysis) to forecast the stress in various material processing's and treatment processes.

Faculty members and student are addressed on Digital Manufacturing system and tool Design Eicher tractor, Mandideep Bhopal

Department of Electronics & Communication Engineering

23-10-2019

Seminar on CNC Programming, CNC Infoysis, patan , Gujarat

CNC part program contains a combination of machine tool code and machine-specific instructions. It consists of: a. Information about part geometry b. Motion statements to move the cutting tool c. Cutting speed d. Feed e. Auxiliary functions such as coolant on and off, spindle direction In this lecture, students understand the coordinate systems of the machine tools and how they work.

Faculty members and students are made aware with CNC Programming,CNC Infoysis, patan

Department of Mechanical Engineering

15-02-2019

Seminar on Computational fluid dynamics BHEL, Bhopal

The Department of Mechanical Engineering, Oriental College Of Technology, organized an Seminar on Computational Fluid Dynamics (CFD).

The lecture was delivered by Mr. Saurabh Sharma, Deputy Manager, Hydro Turbine Division BHEL, Bhopal. The purpose of the lecture was to provide knowledge and encourage students for upcoming era of Manufacturing Industry by delivering a basic knowledge on Computational Fluid Dynamics. As the expert shared the key points on the subject, it was very interesting to know the real time industrial experiences on the same operations. It ended on a curious note and left students inspired to know more.

Students are made aware with Computational fluid dynamics

Department of Electrical & Electronics engineering

20-04-2019

Seminar on Recent Trends in Transformers & Switchgears Testings by Mr. J. Santosh, Additional Director & Unit Head (CPRI) ,Govind Pura , Raisen Road , Bhopal

Department of Electrical & Electronics Engineering of Oriental College of Technology, conducted an Seminar on" **Seminar on Recent Trends in Transformers & Switchgears Testing's**" by Mr. Nikhil Kaushik, Faculty of PCRA, Bhopal. He discussed about utilization of solar energy & various energy converters used in Solar Power Plant Industries in present scenario. Overall session was interactive & students want such interaction in future also.

Recent Trends in Transformers & Switchgears Testings by Mr. J. Santosh,

Department of Electrical & Electronics engineering

23-04-2019

Seminar on Energy Conservation through Renewable Energy Converters by Mr.Nikhil Kaushik, Faculty, PCRA

Department of Electrical & Electronics Engineering of Oriental College of Technology, conducted an Seminar on ”Energy Conservation through Renewable Energy Converters" by Mr. Nikhil Kaushik, Faculty of PCRA, Bhopal. He discussed about utilization of solar energy & various energy converters used in Solar Power Plant Industries in present scenario. Overall session was interactive & students want such interaction in future also.

Energy Conservation through Renewable Energy Converters by Mr. Nikhil Kaushik

Department of Computer Science Engineering

11-07-2018

Workshop on Python Programming By Mr Jitendra Gour Software Engineer TCS Pune

An **Python** is an interpreted, high-level, general-purpose programming language. Created by Guido van Rossum and first released in 1991, Python's design philosophy emphasizes code readability with its notable use of significant whitespace. Its language constructs and object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects.

Python is dynamically typed and garbage-collected. It supports multiple programming paradigms, including procedural, object-oriented, and functional programming. Python is often described as a "batteries included" language due to its comprehensive standard library.

Python was conceived in the late 1980s as a successor to the ABC language. Python 2.0, released in 2000, introduced features like list comprehensions and a garbage collection system capable of collecting reference cycles. Python 3.0, released in 2008, was a major revision of the language that is not completely backward-compatible, and much Python 2 code does not run unmodified on Python 3.

Python Programming By Mr Jitendra Gour

Department of Computer Science Engineering

Guest Lecture on Research Paper Writing By Dr Sangeeta Shukla Prof SIRT Bhopal

20-07-2018

As researchers, we spend years of our life building our research. But then when it comes to academic research writing, many of us still struggle. Writing your research effectively is one of the critical steps in getting your paper accepted. Research communication is more than aggregating results and ideas in one place. A good research paper is one which is easy to consume with all hypotheses validated. The readers should be able to take away concepts from your research that they can further build on.

Faculties are addressed on Guest Lecture on Research Paper Writing By Dr Sangeeta Shukla

Department of Electrical & Electronics Engineering

Expert Lecture on DC Motor By Prof. VK Jain, Prof. BITS Globus Bhopal

10-08-2018

DC motor is any of a class of rotary electrical motors that converts direct current electrical energy into mechanical energy. The most common types rely on the forces produced by magnetic fields. Nearly all types of DC motors have some internal mechanism, either electromechanical or electronic, to periodically change the direction of current in part of the motor.

DC motors were the first form of motor widely used, as they could be powered from existing direct-current lighting power distribution systems. A DC motor's speed can be controlled over a wide range, using either a variable supply voltage or by changing the strength of current in its field windings. Small DC motors are used in tools, toys, and appliances.

Faculties are Expert Lecture on DC Motor By Prof. VK Jain

Oriental College of Technology, Bhopal

Department of Computer Science Engineering

24-08-2018

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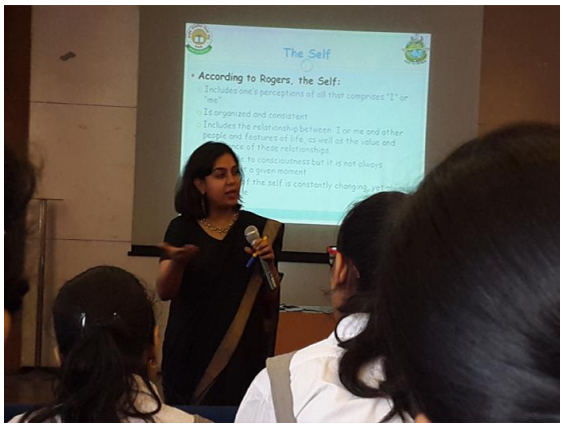
Workshop on Personality Development Ms Deepa Gupta CEO Pariwar Associate Gwalior

Entrepreneurship Development Cell of Oriental College of Technology hosted a Seminar under Entrepreneurship awareness camp My Story - Entrepreneur's Life & Crossroad – Motivational Speak - To be Share by Entrepreneurs. Ms. Shreya Shrivastava Co-Founder of PsychX, Forbes 30, under 30, Child Psychology Specialist, Entrepreneur, Data Analyst at Vidan, graced the event as keynote speaker. It was a hour long event in which Ms. Shreya gave an insight into her life as an entrepreneur. The chief motive of the event was to inculcate and develop entrepreneurship culture among students and provide them with better insights about the challenges encountered down the lane by an entrepreneur. It was a bilateral session where students approached with various queries related to entrepreneurship. At the end, Ms. Shreya interacted with the whole NEC team and provided them with proper guidance.



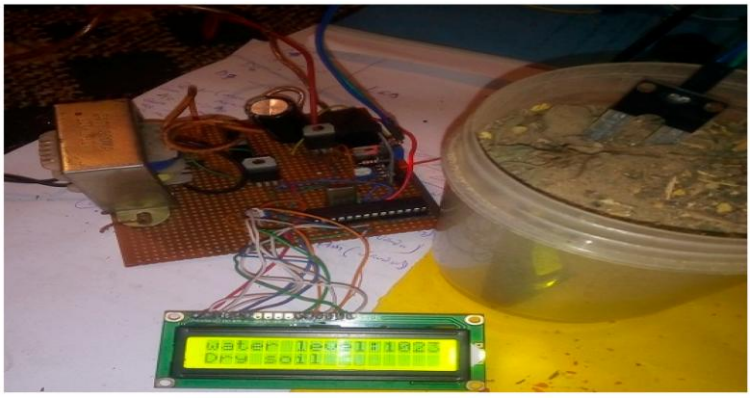
Students attend Workshop on Personality Development Ms Deepa Gupra

Department of Electronics & Communication Engineering

12-09-2018

Seminar on Microcontroller based drip irrigation system Prof. Subrato Howlader TIT Bhopal

The Microcontroller based drip irrigation system proves to be a real time feedback control system which monitors and controls all the activities of drip irrigation system efficiently. The present proposal is a model to modernize the agriculture industries at a mass scale with optimum expenditure. Using this system, one can save manpower, water to improve production and ultimately profit.



Addressed students by Mr. Sudesh from Embedded Drmz Tech

Department of Computer Science & Engineering

12-10-2018

Seminar on Predicting Earth Quake Through Data Mining By Mr. Praveen Shankhre Software Engineer Wipro Bengluru

The field of data mining has evolved from its roots in databases, statistics, artificial intelligence, information theory and algorithms into a core set of techniques that have been applied to a range of problems. Computational simulation and data acquisition in scientific and engineering domains have made tremendous progress over the past two decades. A mix of advanced algorithms, exponentially increasing computing power and accurate sensing and measurement devices have resulted in more data repositories.

Addressed on Seminar on Predicting Earth Quake through Data Mining

Department of Electronics & Communication Engineering

24-01-2019

Seminar on Infrared communications by Prof. Pooja Gupta LNCT Bhopal

Infrared (IR) is a wireless mobile technology used for device communication over short ranges. IR communication has major limitations because it requires line-of-sight, has a short transmission range and is unable to penetrate walls. IR transceivers are quite cheap and serve as short-range communication solutions.

Because of IR's limitations, communication interception is difficult. In fact, Infrared Data Association (IrDA) device communication is usually exchanged on a one-to-one basis. Thus, data transmitted between IrDA devices is normally unencrypted.

Seminar on Infrared communications by Prof. Pooja Gupta

Department of Electronics & Communication Engineering

12-02-2019

Seminar on Application of Lasers in Highway Engineering by Prof Sandeep Shrivastava Prof. OIST Bhopal

In this Era of technology, Lasers have a very vast application in Highway Engineering. It is used various purposes like Road profiling, Pavement surface deflection, Bridge deflection, Speed checkers etc. These techniques have eased Human work by making it simple and easy to use. If compared to older techniques that were cumbersome, these have higher accuracy since everything is automated and quicker in obtaining results since its computed by a computer and need very less human power.

Seminar on Application of Lasers in Highway Engineering by Prof Sandeep Shrivastava

Department of Civil Engineering

22-02-2019

Seminar on Fibre Reinforced Concrete Prof. Ram Mahala TIT Bhopal

Fiber Reinforced Concrete can be defined as a composite material consisting of mixtures of cement, mortar or concrete and discontinuous, discrete, uniformly dispersed suitable fibers. Fiber reinforced concrete are of different types and properties with many advantages. Continuous meshes, woven fabrics and long wires or rods are not considered to be discrete fibers.

Fiber is a small piece of reinforcing material possessing certain characteristics properties. They can be circular or flat. The fiber is often described by a convenient parameter called "aspect ratio". The aspect ratio of the fiber is the ratio of its length to its diameter. Typical aspect ratio ranges from 30 to 150.

Seminar on Fibre Reinforced Concrete Prof. Ram Mahala

Department of Electronics & Communication Engineering

08-03-2019

Guest Lecture on Analog & Digital Communication Dr Sumit Gupta KIT Bhuwneshwar

Communication Systems employing electrical signals to convey information from one place to another over a pair of wires provided an early solution tot he problem of fast and accurate means of long distance communication. Today communication enter in our daily lives in so many different ways that is easy to overlook the multitude of its facets. The Mobile phones at our hands, the radio and the television which are the basic and necessary part of our life are capable of providing rapid Communication from every corner of globe. Here in this section, analog and digital Communication, which are the major mode of communication are discussed with explanation of Analog Communication, Digital Communication and its advantages, disadvantage in details.

Guest Lecture on Analog & Digital Communication Dr Sumit Gupta

Department of Electronics & Communication Engineering

Seminar on Signal & System by Rahul Duby MITS Gwalior

13-03-2019

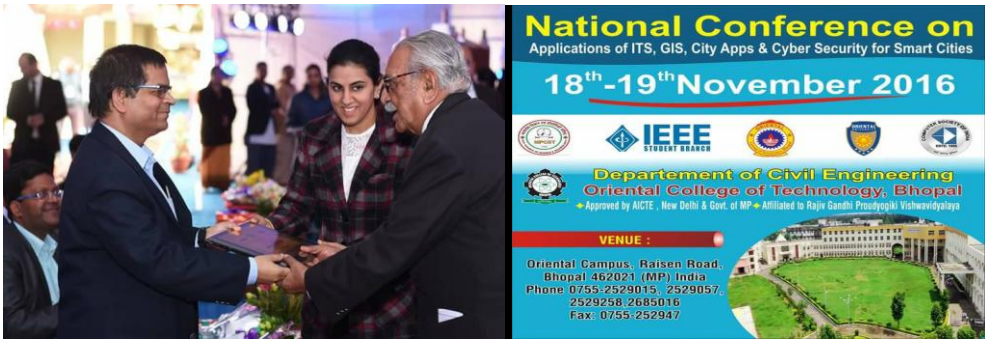
Signal is an electric or electromagnetic current carrying data, that can be transmitted or received. Mathematically represented as a function of an independent variable e.g. density, depth, etc. Therefore, a signal is a physical quantity that varies with time, space, or any other independent variable by which information can be conveyed. Here independent variable is time. A **System** is any physical set of components or a function of several devices that takes a signal in input, and produces a signal as output.

Designing procedure of PCB Presented by Team of **IndEyes InfoTech Pvt. Ltd**

Department of Civil Engineering

18-19 Nov, 2016

National Conference on Applications of ITS, GIS, City Application & Cyber Security for Smart City



National Conference Pictures

Department of Electrical & Electronics Engineering

15-16 Dec, 2016

International Conference on Advanced in Engineering Research and Applications

International Conference Pictures

Department of Computer Science & Engineering

08-09 November, 2019

National Conference on Recent Advancements in Energy Science and Technology

National Conference Pictures