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Seminar on Electric Vehicle Technology and it's future | Subject Seminar 2021

In today's increasingly technologically advanced world, electric vehicles are becoming more popular. In this subject seminar, I have discussed the basics of electric vehicle technology. Topic Covered 1) Introduction 00:00 2) History/Evolution of electric vehicles 4:25 3) Need of EV/Why so much interest in electric vehicle 09:12 4) Types of EVs 13:12 5) Introduction to electric vehicle components 17:11 6) Battery Pack Design 21:20 7) Future of EVs 32:00 Note:- The content of these slides is not entirely mine. They are taken from NPTEL NOC, Indian Institute of Technology Madras, and Indian Institute of Technology Delhi, generated by the respective professors. Thanks to them #electricvehicles

SEMINAR TOPICS FOR MECHANICAL STUDENTS 2019 | 2020

Top 10 Best SEMINAR TOPICS FOR MECHANICAL STUDENTS

- 1. HYDROGEN WIRE CAR** Cars are immensely complicated machines, but when you get down to it, they do an incredibly simple job. Most of the complex stuff in a car is dedicated to turning wheels, which grip the road to pull the car body and passengers along. The Hy-wire's "brain" is a central computer housed in the middle of the chassis. It sends electronic signals to the motor control unit to vary the speed, the steering mechanism to manoeuvre the car, and the braking system to slow the car down. gm.com/
- 2. AIR CAR** Compressed Air Technology is now widely preferred for research by different industries for developing different drives for different purposes. The Compressed Air Technology is quite simple. If we compress normal air into a cylinder the air would hold some energy within it. This energy can be utilized for useful purposes. When this compressed air expands, the energy is released to do work. apimages.com/
- 3. GREEN MANUFACTURING** Green Manufacturing is a method for manufacturing that minimizes waste and pollution achieved through product and process design. It slows the depletion of natural resources as well as lowering the extensive amounts of trash that enter landfills. industry.gov.ph/greening-manufacturing/
- 4. SOLAR COOLING** Solar cooling refers to any cooling system that uses solar power. This can be done through passive solar, solar thermal energy conversion and photovoltaic conversion (sun to electricity). The U.S. Energy Independence and Security Act of 2007 created 2008 through 2012 funding for a new solar air conditioning research and development program, which should develop and demonstrate multiple new technology innovations and mass production economies of scale. Solar air conditioning will play an increasing role in zero energy and energy-plus buildings design. Seminaronly.com researchgate.net/figure/Process-diagram-of-the-Solar-Cooling-System_fig1_265055158
- 5. PNEUMATIC TYRES** Air-filled tires are known as pneumatic tires, and these are the type in almost universal use today. Pneumatic tires are made of a flexible elastomer material such as rubber with reinforcing threads/wires inside the elastomer material. The air compresses as the wheel goes over a bump and acts as a shock absorber. 123seminaronly.com casterconcepts.com/pneumatic-tire-types/
- 6. SELF HEALING ROBOTS** When people or animals get hurt, they can usually compensate for minor injuries and keep limping along, but for robots, even slight damage can make them stumble and fall. Now a robot scarcely larger than a human hand has demonstrated a novel ability: It can recover from damage ? an innovation that could make robots more independent. 123seminaronly.com robotglobe.org/some-soft-robots-can-heal-themselves/ thesun.co.uk/tech/4262775/scientists-create-terminator-style-immortal-robot-with-self-healing-flesh/
- 7. 3D Printing** 3D printing or additive manufacturing is a process of making three dimensional solid objects from a digital file. The creation of a 3D printed object is achieved using additive processes. This method uses a high powered laser to melt powder together. seminartopics.com nbins.com/blog/manufacturing/3d-printing-manufacturing/
- 8. Microcontroller based drip irrigation system** 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. electronicsforu.com/electronics-projects/automatic-drip-irrigation-system
- 9. Suspension System** Suspension system is the term given to the system of springs, shock absorbers and linkages that connects a vehicle to its wheels . It is basically cushion for passengers protects the luggage or any cargo and also itself from damage and wear. Sir William Brush is the father of suspension system in automobiles. enggroom.com blog.cardash.com/how-to-care-for-your-car-suspension-system-a349a1e07775
- 10. BIOMECHATRONIC HAND** An "ideal" artificial hand should match the requirements of prosthetics and humanoid robotics. It can be wearable by the user which means that it can be perceived as part of the natural body and should replicate sensory-motor capabilities of the natural hand. However ,such an ideal bionic prosthesis is still far from reality. This paper describes the design and fabrication of a novel artificial hand based on a "biomechatronic" and cybernetic approach. The approach is aimed at providing "natural" sensory-motor co-ordination, biomimetic mechanisms, force and position sensors, actuators and control, and by interfacing the hand with the peripheral nervous system. enggroom.com hackaday.com/2018/10/18/mechatronic-hand-mimics-human-anatomy-to-achieve-dexterity/ music credit bensound.com

How to Write a Seminar Presentation and Report for Engineering Student

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patreon.com/LearnEngineering CVT is used by the latest high performance vehicles due to the smooth driving experience it provides. In this video we will explore the inner workings of Continuously variable transmission including that of a Reverse gear. Like us on FB : facebook.com/LearnEngineering Voice-over artist : fiverr.com/mikepaine

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Hello, students/faculties, In this video, I have explained the important technical seminar topics for the Electrical/Electronics/Instrumentation branches, which will surely helpful for UG and PG Engineering students. The following videos also useful for you: Steps for technical seminar preparation: youtu.be/iPgL6B1qPIY Guidelines for preparing technical seminar report: youtu.be/xS-R3KVjbEk For your information, I have prepared two videos on Project Report Preparation. Kindly go through it and share it with whomever needful. Major steps in Project Report Preparation: youtu.be/Y9abo8ydh2Y Examples of Project Report Preparation: youtu.be/9HcpUURIyKk Hope the above session will fruitful all streams of Engineering and Non-engineering branches. The following videos also helpful for you : LATEST ELECTRICAL, ELECTRONICS PROJECT TOPICS 2021: youtu.be/jzSvnCGiq04 Latest Power Electronics Projects: youtu.be/PPvM6v-D_A Latest Top 10 Electrical Power Systems: youtu.be/5DUP0MYAJcQ Latest Top 50 Electrical Power Systems Project& Seminar Topics: youtu.be/nF6n4XAwDs4 Top 10 Electrical Power Systems Project& Seminar Topics: youtu.be/cTovYNOtUa0 Download IEEE paper without any charge: youtu.be/xIW7eVDgpUU How to prepare a project report? youtu.be/Y9abo8ydh2Y Steps for project Report Preparation: youtu.be/9HcpUURIyKk Steps for technical seminar preparation: youtu.be/iPgL6B1qPIY Guidelines for preparing technical seminar report: youtu.be/xS-R3KVjbEk Important Technical Seminar Topics (EEE/ECE/EIE) : youtu.be/PyMfIWYdlOU ou can watch my previous class of "Sensors and Transducer" Subject by following the videos; What are Transducers? : youtu.be/MiIeuxtTqo4 Transducer Actuating Mechanism: youtu.be/N4wiiFLotg8 How do you select a Transducer: youtu.be/qanf7iDQOE Resistance Transducers: youtu.be/kb3W-1_deLc Strain gauge (A to Z details) : youtu.be/2O3xbq0ky74 Load Cells (Complete Details) : youtu.be/kCagG3GuHoU THERMOELECTRIC TRANSDUCERS: youtu.be/-hAicBabuvU Variable Inductance Transducers: youtu.be/N20IO9cWL9w Sensors vs Transducers: youtu.be/zA8p0sPCUOY Hall effect transducers: youtu.be/-GO-5YSGeFI Classification of Transducers: youtu.be/vGIBIsTwCfA Advantages and Disadvantages of Transducers: youtu.be/uRwlsR_Ywmk SYLLABUS OVERVIEW (Sensors & Transducers) : youtu.be/zxYeJW9v6OU What is a Sensor: youtu.be/e7YXdlr2pLA RESISTANCE TEMPERATURE DETECTOR (RTD) : youtu.be/eXB_p8sAO6U Thermistors: youtu.be/sKU6NEIYOKU LINEAR VARIABLE DIFFERENTIAL TRANSDUCER (LVDT) : youtu.be/yriRrLivyaQ CAPACITIVE TRANSDUCERS: youtu.be/emtskVpbtyY Piezoelectric Transducers: youtu.be/E0NMM_Pq0IY PHOTOELECTRIC TRANSDUCERS : youtu.be/Dqx1RftB_P0 Stay tuned! I will come up with similar kinds of classes in the upcoming session. (Basic Electrical Engineering Playlist): Voltage Division Rule : youtu.be/mFzDJ48DioA Ohm's law : youtu.be/FilAmxDgw50 Ohm's law using the virtual lab : youtu.be/y6euuQIWmc8 What is Electricity? : youtu.be/YTsqTzEvsbo DC Series Circuits : youtu.be/-LO-TG2GbeU DC Parallel Circuits: youtu.be/jlY6eleVRAo SERIES-PARALLEL CIRCUITS COMPLETE STUDY & ANALYSIS : youtu.be/nYIa8S6oIQw Syllabus Description: youtu.be/s5AaMoYmwdA Ohm's law simulation : youtu.be/y6euuQIWmc8 Control System Playlist: The following lecture videos will be helpful for you. Complete Control Systems Lecture Videos: youtube.com/playlist?list=PLwymdQ84KI-zDPJzr3htPWijrStCeCW5 STEADY STATE ERROR IN CONTROL SYSTEM : youtu.be/xUczORmhuBc Standard Test signals: youtu.be/cB27-vbUn3A Synchros: youtu.be/ZqVRkDCp_fU Step Response of Critically Damped System: youtu.be/VuGSO8b5xIs Demonstration synchros: youtu.be/vfAyXcZeyGE Step Response of Underdamped Systems: youtu.be/Ir76-v67HMc Type and Order: youtu.be/c-Uy_GZ-WuM Second-order control systems: youtu.be/QM9NzKfdme8 Poles and Zeros: youtu.be/49FJgVrIMmE Time Response of first-order control systems: youtu.be/Yh_KAiqKlg8 Transfer Function of Armature Controlled Motor : youtu.be/53IQg-lepQ8 For Non-Technical studies (GK, Current Affairs, Biology) please do visit my another youtube channel namely 'Winners Capsule' channel: youtube.com/c/WINNERSCAPSULE MATLAB Tutorials: youtube.com/playlist?list=PLwymdQ84KI-zOJ98sKtbGjBHBORGOG_dk Thanks a lot for listening!

Technical Seminar: Thermal Protection Systems

Hypersonic vehicles differ significantly from rocket-based vehicles in their architecture and mission. The high temperature gradients and structural loads are "Achilles heels." This presentation discusses recent advances in thermal protection systems and hot structures for hypersonic vehicles and the technical challenges that need to be overcome. Aired March 20, 2007.

Exhaust gas recirculation (EGR) made easy

Exhaust gas recirculation is used to reduce harmful emissions from petrol and diesel engines. In this video, we show you how EGR operates, the components it is made up of and how they work. - - - - - Facebook: facebook.com/MotorServiceGroup Twitter: twitter.com/msmotorservice Website: ms-motorservice.com

November 3, 2021 Public Meeting for Barriers Report

First of two public meetings to gather public input to inform the develop of a report on the barriers and opportunities to climate and clean energy services and resources in communities that are historically overburdened and under-resourced.

Radio Hacking: Cars, Hardware, and more! - Samy Kamkar - AppSec California 2016

Watch Samy most recent talk on Browser Manipulation youtube.com/watch?v=KIT_miPTvPA In this talk I'll introduce radio hacking, and take it a few levels into hacking real world devices like wirelessly controlled gates, garages, and cars. Many vehicles are now controlled from mobile devices over GSM and the web, while even more can be unlocked and ignitions started from wireless keyfobs over RF. All of these are subject to attack with low-cost tools (such as RTL-SDR, GNU Radio, HackRF, Arduino, and even a Mattel toy). We'll investigate how these features work, and of course, how they can be exploited. I'll be going from start to finish on new tools and vulnerabilities in this area, such as key-space reduction attacks on fixed-codes, advanced "code grabbers" using RF attacks on encrypted and rolling codes, exploiting mobile devices and poor SSL implementations, and how to protect yourself against such issues. By the end of this talk you'll understand not only how vehicles and the wirelessly-controlled physical access protecting them can be exploited and secured, but also learn about various tools for hardware, car and RF research, as well as how to use and build your own inexpensive devices for such investigation! Samy Kamkar Samy Kamkar is an independent security researcher, best known for creating The MySpace worm, one of the fastest spreading viruses of all time. His open source software and research highlights the insecurities and privacy implications in every

day technologies, from the Evercookie which produces virtually immutable respawning cookies, SkyJack, the drone that wirelessly hijacks other drones, and KeySweeper, a wireless keyboard sniffer camouflaged as a USB wall charger. He continues to release new tools and hardware, for examples most recently the ProxyGambit, OpenSesame and ComboBreaker tools. - Managed by the official OWASP Media Project owasp.org/index.php/OWASP_Media_Project

How Shell and Tube Heat Exchangers Work (Engineering)

Learn how a shell and tube heat exchanger works! Learn about its main parts, components, how it works, design features, advantages and disadvantages. Ideal material for anyone starting an industrial engineering career! Like this video? Then check out our other videos! [📺 Marine Diesel Two Stroke Engine - How it Works!](https://youtu.be/IM8rxp8qB8k) - youtu.be/IM8rxp8qB8k [📺 Ship Parts and Terminology Explained!](https://youtu.be/Xm-F2rPU_NU) - youtu.be/Xm-F2rPU_NU [📺 How Deaerators Work!](https://youtu.be/M_jOsTWVIH8) - youtu.be/M_jOsTWVIH8 [📺 How Shell and Tube Heat Exchangers Work!](https://youtu.be/OyQ3SaU4KKU) - youtu.be/OyQ3SaU4KKU [📺 How Power Grids Work!](https://youtu.be/fUWRyhsutL8) - youtu.be/fUWRyhsutL8 [📺 How Watertube Boilers Work!](https://youtu.be/fUWRyhsutL8) - youtu.be/fUWRyhsutL8 [📺 How Dams Work \(Hydro Dams\)!](https://youtu.be/OyQ3SaU4KKU) - youtu.be/ztM6tL6LtfS [📺 Control Valve Types \(Gate Valve, Globe Valve etc.\)!](https://youtu.be/3osmO4FQ2Yg) - youtu.be/3osmO4FQ2Yg [📺 Plate Heat Exchangers Explained!](https://youtu.be/7TTF4aU3Pcs) - youtu.be/7TTF4aU3Pcs [📺 Want to learn more about engineering? Then join saVRee to access over 45 hours of engineering video courses! New courses every month! courses.savree.com/ Hope to see you on a course soon! 📺 📺 Want to use the 3D model in this video to present, instruct, or teach? Simply join saVRee! We have over 400 engineering models that will make your life a lot easier! savree.com/ 📺 Check out our socials! linktr.ee/savree 📺 You can learn more about engineering in our technical encyclopedia: savree.com/en/encyclopedia](https://www.savree.com/) [▶ 📺 Introduction Shell and tube type heat exchangers can be found in many industries. This type of heat exchanger, along with the plate type heat exchanger \(PHE\), are the most common heat exchangers used in the industrial engineering world today. Shell and Tube Heat Exchanger Parts A shell and tube heat exchanger consists of a series of tubes housed within a cylindrical container known as a 'shell'. All tubes within the shell are collectively termed a 'tube bundle' or 'tube stack'. Each tube passes through a series of baffles and one or more tubesheets. Normally, one of the tubesheets is fixed and one is free to move, this allows for thermal expansion as the heat exchanger temperature changes. How Shell and Tube Heat Exchangers Work The flowing medium within the tubes is known as the 'tube side' medium. The flowing medium outside of the tubes is known as the 'shell side' medium. Each medium has one entry and one discharge. The tube side fluid flows through the tubes and has turbulent flow due to the turbulators. The shell side fluid has turbulent flow due to the baffles. As the shell and tube side fluids flow through the heat exchanger, they are brought into close physical contact with each other. Close physical contact allows them to exchange heat, because they have thermal contact with each other. Heat is exchanged with one fluid becoming cooler and the other becoming warmer. #saVRee_Nuggets, #saVRee](https://www.savree.com/en/encyclopedia)