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NAAC TECHNO INDIA NJR INSTITUTE OF TECHNOLOGY ACCREDI Seminar on: Training, Certification & Opportunities in Diligent MR. VAIBHAV MR. FARHAN **MUBASHIR** MAHESHWARI Microsoft ORACLE CEO & President Technical Direc Date : July 16, 2022 | Saturday Co-Founder /TechnoNJROfficial 💮 www.technonjr /TechnoIndiaNJR

Cnetric Selects 15 Techno NJR students. Congratulations to the selected students: Dharmendra Choudhary, Jaykishan Daiya, Lucky Jadia Nikhil Solanki, Praduman Sharma, Priyal Jain, Riya Sharma Sakshi Pahuja, Sameer Sheikh, Sanjana Purbia, Sourabh Nagda, Suhani Khetpalia, Utkarsh Mathur, Vaishnavi Hon, Yogik Shukla



SAP Certification for Techno NJR students. Techno NJR had first launched SAP ABAP certification for Techno students in the year 2014. Around 20 students got SAP certified and many of them joined Diligent Tech and built their career in SAP technology and are presently working at very high salaries in various companies



TECHNO INDIA NJR

Congratulations to Techno NJR Faculty members & Students for achieving Spryker Certified Specialist Certification. Spryker is the leading composable commerce platform for B2B, Enterprise Marketplaces, D2C, and Thing Commerce. Our easy-to use, headless, API-first model is designed specifically for sophisticated transactional businesses. It offers a best of breed approach that provides businesses the flexibility to adapt, scale, and quickly go to market while facilitating faster time-to-value throughout their digital transformation journey.

01.

Sensors

Vision

Empowering student with recent and emerging technologies to create innovative technical leaders capable of contributing to industrial and societal needs for betterment of mankind across the globe.

Mission

To provide avenues and opportunities to faculty for domain specific trainings and qualification upgradation.

Articles

What are IoT Devices and How Do They Communicate?

What is the Internet of Things (IoT)?

A wireless call involves one network, but an IoT alert from a phone about someone at your doorstep involves multiple networks. IoT devices use embedded sensors to collect, share real-time data with other devices.IoT merges custom technologies to connect internet-enabled physical devices, enabling wireless communication. Networks let smart devices exchange data, monitor tasks, and remotely control without human intervention. In manufacturing, it's called IIoT or Industry 4.0. Sensors on assets aid predictive maintenance, preventing downtime.IoT's reach spans sectors, including healthcare (IoMT). Wearables provide health data for managing routines. Projected IoT devices: 30.9 billion by 2025, from 13.8 billion in 2021, surpassing global population.



What are IoT devices?

IoT devices are compact hardware like sensors, appliances, and machines programmed to send data and perform tasks over networks. They're in mobile devices, equipment, sensors, appliances, vehicles, etc. Many IoT devices use AI, machine learning, and deep-tech for intelligence and autonomy in areas like autonomous driving, smart manufacturing, and home automation. Due to bandwidth and privacy concerns, data processing often happens on the device itself (edge computing).

How do IoT devices communicate?

According to IBM, standard protocols allow different devices operating over various systems and networks to communicate with each other. Typically, one standard model undergoes seven layers of protocols when a device communicates with another through a wireless network. It works like this; data is sent from a physical device through the network, transported into a session, then presented where the information needs to be seen, and finally reaches the application protocol where the data will be used, manipulated, and retransmitted.

The IoT ecosystem provides the infrastructure and protocols needed to transport data from devices to real-world applications. However, it involves a certain number of "layers."

Layer 1: Devices

The first layer is the device that includes all the physical assets and components that connects with external environments to capture and disseminate data and information, using communication elements - connectivity and network.

Arguably, the most critical component in IoT, the sensor is a device designed to detect, measure, or indicate a specific quantity, characteristic, or attributes, such as heat, light, motion, moisture, or pressure.



As their name suggests, actuators are designed to take or activateactions based on the signals and inputs from sensors and the parameters set in the programming.

Layer 2: Gateways

An IoT gateway can be a physical device or virtual platform such as hardware or software or a combination that connects sensors, IoT modules, and smart devices to the cloud. Gateways give IoT devices access to the Internet by bringing together multiple devices, technologies, solutions, and systems.

Layer 3: Platforms

An IoT platform can be an on-premises software suite or a cloud service – a middleware that monitors and controls various endpoints by acting as the medium between the more hardware-based layers of IoT devices, gateways, the business, and application layers at the user end of the IoT system.

Layer 4: Connectivity and Communication

The ability of IoT devices to communicate back and forth across the network through several protocols and technologies is critical for the success of an IoT deployment. Today, there are many communication technologies available, including:

- Bluetooth > RFID EnOcean Ethernet > DSL GSM (Global System for Mobile communications) > Fiber 🕨 Wi-Fi VHF/UHF/SHF radio Ipv4 and Ipv6 NFC (Near-Field Communications) Networks go hand in hand with connectivity, and some popular networks being used in IoT are:
- Local Area Networks (LAN)
- Wide Area Networks (WAN)
- > The Internet
- Power Line Communication (PLC)
- Layer 5: User Interface

While IoT, along with other technologies like AI and RPA, automates many processes, some decisions or actions need to be handled or controlled manually through a traditional user interface. For example, a user may want to adjust the temperature of a thermostat or check the IoT security camera using the smartphone. When an input or intervention is required from a human user, an IoT user interface is inevitable.

Embracing Composable Commerce for a Future-Ready E-Commerce Landscape

Mesh networks

> WiMAX networks

> Satellite networks

Cellular/mobile networks

In the ever-evolving world of e-commerce, staying ahead requires innovation and adaptability. An enlightening article titled "Why Composable Commerce Should Top Every Application Leader's Agenda" highlights the transformative potential of composable commerce and its significance for application leaders in engineering.

Composable commerce, a cutting-edge approach, empowers businesses to create flexible and personalized e-commerce solutions by seamlessly integrating various independent components. Unlike traditional monolithic systems, composable commerce allows rapid adaptation to changing market trends and customer preferences. This agility fosters innovation and accelerates time-to-market, crucial factors for engineering graduates entering the industry.

The article underscores that composable commerce is not just a technological trend but a strategic business approach. It enables organizations to leverage their existing infrastructure while effortlessly integrating new tools and services.

This modularity reduces development costs, minimizes disruptions, and provides a future-proof foundation. This insight is particularly valuable for students aiming to build a sustainable and adaptable technologicalframework.

Composable commerce also enhances customer experiences. By assembling specialized components, businesses can tailor their offerings to match individual customer journeys. This personalized approach fosters customer loyalty and drives higher engagement. As engineering enthusiasts, students can explore the potential of composable commerce in creating intuitive and user-centric online platforms.

Visualizing the concept is equally important. Imagine a toolkit with various modules, each representing a specific e-commerce function. These modules can be combined like building blocks to construct a unique and efficient system. Just as engineering designs require a mix of components, composable commerce emphasizes the harmonious fusion of diverse ecommerce services.

In a dynamic industry where change is constant, composable commerce stands out as a gamechanger. It empowers application leaders to respond swiftly to market shifts, experiment with innovative features, and deliver seamless user experiences. This resonates deeply with the goals of budding engineering talents eager to shape the digital landscape.



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Telescope using ring

Telescope eyepiece

e-1 displa

Environmental Monitoring: EDM techniques are used in environmental applications such as monitoring changes in glaciers and studying the movement of glaciers and ice sheets to help us understand changes in air exchange. The technology behind EDM, including laser and electromagnetic wave-based technology, is used in industries such as land survey and construction, geodesy, and environmental monitoring.

Optimizing Process Parameters for Reduced Surface Roughness in EDM of Aluminium 6061 T6

Electric Discharge Machining (EDM) is a crucial precision machining process used for materials like aluminium 6061 T6. Surface roughness is a critical quality parameter in EDM, and optimizing process parameters is key to achieving superior results. Aluminium 6061 T6 presents unique challenges due to its conductivity. To reduce surface roughness, fine-tuning process parameters is essential. Discharge current is a significant factor in EDM. Adjusting it helps control sparking intensity and prevent surface pitting, leading to better finish. Pulse duration and frequency also affect surface quality, with shorter pulses and higher frequencies promoting smoother finishes by reducing the heat affected zone.

The choice of electrode material is vital. Copper electrodes are common, but advanced composites or coatings can enhance performance and reduce wear, resulting in improved surface finish. Dielectric fluid plays a crucial role as a coolant and insulator. Selecting the right dielectric fluid, such as deionized water or dielectric oils with additives, aids in efficient debris removal, cooling, and reducing surface roughness. Optimizing process parameters typically involves experimental designs and statistical analysis to identify the best combination for desired results. Modern techniques like Response Surface Methodology (RSM) and Taguchi methods are invaluable for achieving this efficiently.



- Mr. Yogendra Singh Solanki (Asst. Prof., ECE)

Electronic Distance Measurement (EDM) has revolutionized the field of measurement by making distance measurement faster, more accurate and more efficient. Measuring methods, including chains or tape measures, have been replaced by efficient electronic devices that use lasers or electromagnetic waves to measure distances precisely. In this article, we discuss the importance, technology and different applications of EDM in measurement.

The Machine Behind the EDM

EDM equipment uses a variety of technologies, including:

Laser-based EDM: Today's measuring equipment often uses a laser to measure distance. This device emits a laser light that is reflected by reflectors placed on the target. By measuring the time it takes for the laser beam to reach the reflector and back, the device will calculate the distance with good accuracy.

Electromagnetic waves: Some EDM tools use electromagnetic waves, such as microwaves or radio waves, to measure distance. This device emits a signal that is reflected back to the meter. The meter measures the distance based on the time it takes for the signal to return.

As the article aptly concludes, embracing composable commerce is not just a choice; it's an imperative for businesses aspiring to thrive in the digital age. Its blend of adaptability, cost effectiveness, and customer-centricity holds the key to unlocking endless possibilities in ecommerce. For engineering students gearing up for the industry, understanding and harnessing the potential of composable commerce is an investment in a future where innovation knows no bounds

Mr. Aaditya Maheshwari (CSE)

Embracing Composable Commerce for a Future-Ready E-Commerce Landscape

Introduction



Applications of EDM in Surveys

Soil Survey: EDM is widely used in soil surveys to accurately measure the distance between survey points. The technology allows field researchers to create detailed and accurate maps, mark boundaries and accurately determine elevations.

Construction: In the construction industry, EDM is used for installation and performance measurement. It helps to lay the foundation, provide the relationship and measure the distance between building works for a smooth and error-free construction.

Geodesy: Geodesists use EDM technology to accurately measure dimensions to study the Earth's shape and size. This is important for applications such as satellite positioning systems and understanding the motion of tectonic plates. Mining and Quarrying: EDM tools play an important role in mining and quarrying. They are used for blast calculation, measuring distance for volume estimation, and monitoring the stability of slopes and walls.

As technology continues to advance, EDM is likely to play an even more important role in shaping the future of measurement. The ability to provide accurate and reliable measurements will continue to spur innovation and improvement in many applications.

- Mr. Gaurav Purbia (Asst. Prof., CE)

01.

The future of software development is likely to be polyglot, with developers choosing the best programming language for specific tasks or modules within a project. Compilers are evolving to support this diversity by becoming polyglot themselves. These advanced compilers can seamlessly integrate code written in multiple languages, optimizing and managing their interactions efficiently. This flexibility allows developers to leverage the strengths of various languages while maintainin codebase integrity.

03.

Machine Learning-Powered Compilation

Machine learning and artificial intelligence are finding their way into compiler technology. Compilers equipped with machine learning algorithms can analyze code patterns, predict potential issues, and recommend optimizations. These smart compilers can adapt and learn from the code they compile, continuously improving performance and reducing errors.

05

07.

Conclusion

The future of compilers is a thrilling one, marked by adaptability, intelligence, and a broader scope of optimization. As software development continues to evolve, compilers will play a central role in enabling developers to create more efficient, secure, and versatile applications. These advancements in compiler technology will not only empower developers but also open doors to new possibilities in the realm of computing, from quantum computing to secure data processing and beyond. The compilers of tomorrow are set to revolutionize the way we write and execute code, driving innovation and pushing the boundaries of what's possible in software development.

AR/VR shopping experience

manner!

In conclusion, optimizing process parameters in EDM of aluminium 6061 T6 is essential for reducing surface roughness. Balancing factors like discharge current, pulse duration, frequency, electrode material, and dielectric fluid helps achieve smoother surfaces and higher product quality. As precision and surface finish demands rise, the importance of process optimization in EDM becomes increasingly evident, contributing to improved manufacturing outcomes.

- Ms. Nisha Patel (Asst. Prof., ME)

The Future of Compilers: Paving the Way for Advanced Software Development

Compilers, the unsung heroes of the software development world, have been instrumental in transforming human-readable code into machine-executable instructions for decades. As technology evolves, the role and capabilities of compilers are also undergoing significant changes. In this article, we will explore the future of compilers and how they are poised to shape the landscape of software development in the years to come.





Language Diversity and Polyglot Compilers

Homomorphic Encryption Integration

With the growing importance of data privacy, compilers are expected to incorporate homomorphic encryption techniques. This will enable secure computation on encrypted data, allowing applications to perform complex operations on sensitive data without ever exposing it in plaintext. Compilers will need to be aware of encryption schemes and optimize code accordingly.

Real-Time Compilation and Adaptive Systems

In domains like autonomous vehicles and IoT, low-latency and real-time requirements are critical. Future compilers will be designed to support real-time compilation, enabling adaptive systems to make split-second decisions. This will be crucial in applications where milliseconds can make the difference between success and failure.

- Mrs. Kirti Dashora (Asst. Prof., CSE)

Virtual Reality (VR) and Augmented Reality(AR) is a computer-generated environment with scenes and objects that appear to be real, making the user feel they are immersed in their surroundings. Might be complex to understand this so let's understand it in simplest

The point of virtual reality is to provide users with an immersive, digital environment that can be interacted with in a realistic way. Human eyes cannot see 360° view in any natural ways. This technology allows users to experience a 3D environment as if they were physically present in it, often with the use of specialized headsets and hand-held controllers showing non realistic things into. 14.25 million units of

Optimizations Beyond Speed

Traditionally, compilers focused primarily on optimizing code for speed. However, the future will see a shift towards more holistic optimizations. Compilers will aim to optimize not only for speed but also for factors like power consumption, memory usage, and security. This will be critical in an era where energy efficiency and security are paramount concerns in both consumer and industrial applications

04

02

Quantum Computing Compilation

As quantum computing inches closer to practicality, compilers will play a pivotal role in bridging the gap between conventional and quantum computing. Specialized quantum compilers will be needed to translate high-level quantum programming languages into quantum machine code. These compilers will be essential in making quantum computing accessible to a broader audience.

06.

Cloud-Native Compilers

Cloud computing and serverless architectures are reshaping how applications are deployed and executed. Future compilers will be optimized for cloud-native development, allowing developers to write code that seamlessly scales across cloud resources. They will also provide automatic load balancing and resource allocation to maximize cost efficiency



VR sold in 2021 and 19.14 million in 2022, the future of VR in retail is only growing.

"Virtual reality is not a technology; it is a destination."

We have understood what AR/VR is capable of! So what's the use of this in shopping experience? Well, you can try on items or tour a store from the their place whether it's home or any place.

Instead of holding an item, you can get a 360-degree view and tailor it to your exact wants and needs. This experience could never be replicated in a physical store. This can curb the process of returning products which can be drastically reduced.

Digital stores: Digital stores are on the peak of the shopping experiences. Customers expect an interactive journey from discovery to checkout. IKEA is a known popular store to implement this.

Social media filters: Many young brands like Nike and Adidas are using social media filters on Snapchat, TikTok and Instagram to engage with GenZ and GenA users. These filters include try-on and AR-powered simulated environments that are immersive

Virtual try-on solutions: Virtual try on is an AR-enabled feature that allows customers to try before they buy. The use-cases for this product feature are labyrinthine: in jewelry, furniture, fashion, home decor, beauty and skincare, entertainment, etc. AR/VR is the emerging technology which breathes new life into shopping. It helps us visualize products, try them on virtually, obtain detailed information, and creates interactive shopping environments. With AR, we can make more confident buying decisions while embracing a more engaging and personalized shopping journey.

Mr. Shailesh Meghwal (CE Student)

Mathematics is the Language to Express All Phenomena of Environment, Nature and Life

Mathematics is not merely an abstract but it is the language to express all phenomena of nature and life. In other words I would try to prove that mathematics is not only a body of facts, but it is the way of thinking about the world. Most important thing about mathemat -ics is, that patterns of mathematical thinking are much the same as the fundamentals pattern of all human thinking.

The nature of mathematics has been the focus of much writing over the last few decades (e.g., Begg, 1994, 2005; Dossey, 1992; Fuson, Kalchman & Bransford, 2005; Ocean, 2005; Presmeg, 2002; Winter, 2001). Dossey (1992) argues that different conceptions of mathematics influence the ways in which society views mathematics. The foundation of good mathematical thinking establishes a good foundation for all thinking, therefore mathematical learning assumes great importance. The teaching of mathematics could be made more effective, useful and interesting if we always bear in mind these important aspects of the subject. It is teaching which is responsible for joy, intellectual curiosity and creativity in learning. It is teaching which creates confidence in the subject and makes learning a pleasant, successful and stimulating experience. Generally teachers from primary level to university level have considered mathematics only as an abstract subject, and because of this it has induced fear in young children and university student alike. They find it very ugly and unpleasant. It has become a common saying that "I have no head for mathematics." We have to change this attitude and realize that teaching of mathematics is not just imparting knowledge about the fact, but it should also develop the ability to think in a mathematical way. This is only possible if they are taught to think in this way.

To impart knowledge of mathematics by this method is not very difficult but it demands good training, practices and devotion. Perhaps the greatest challenge today for teachers is to develop philosophies of teaching mathematics. The philosophies can grow out of experience, the assimilation of fresh and vital ideas, and from the improved personal ability and interest in the subject. The object of this paper is to introduce a method of teaching mathematics, which is based on philosophy that "Mathematics is the language in which nature speaks."

Facing problem and solving

There are a good many idioms, proverbs, sayings and maxims which match with our procedure followed in solving a mathematical Facing problem and solving them is a fundamental activity of human life. If we think seriously, we find that the problem of life are attacked problem. With the example of above article I am trying to say that the mathematics is the part of our life. These are the some examples and solved in the same way as the problems of mathematics. There are a good many idioms, proverbs, sayings and maxims which match which prove that how much our life influence with mathematics .I am sure there are many more examples in mathematics which can with our procedure followed in solving a mathematical problem. The idioms, proverbs, sayings or maxims quoted will be put within the totally the reflection of our life and nature. My focus is moving away from teaching as telling and toward alternatives found in conversat brackets. If we want to solve a problem, first we should understand the problem (He who would understand well, must do well). If the start -ions-in particular, complex conversations-that generate new ideas and transform all who are involved. This paper reports on one is good, there are better chances of a correct solution (What is well begun is half done). Yet it is not enough to understand the problem small component of a much larger study that explored the perspectives of students towards mathematics learning. Students were and start it well, we must also desire to solve it bravely (Where there is a will there is a way). If at first you don't succeed, try and try again, asked "What do you think maths is all about?" Throughout that teachers can represent information and knowledge in ways that allow it is only by dint of hard work solution obtained (No pains, No gains). We should carry our plan step by step (Step after step the ladder is students to connect in meaningful ways. ascended). The obtained solution should be correct otherwise all labour is wasted (All's well that ends well).

Mathematics Express All Phenomena of Nature and Life

given below :-2

in daily life.

As a student of ancient Indian literature, I am struck by the marvelous resemblance in the definition of the infinity and the definition of the God as given in a couplet of Upanishad, one of the most important books of Hindus on spiritualism, The central idea of the couplet is

The God is infinite and this whole universe which is a creation of the God is perfect in itself. The perfect (Universe) has come out of the infinite (GOD) yet the infinite (GOD) remains as before. To create a sense of humor, the teacher may say that a zero is more powerful than an atom bomb, because any number however great it may be, when multiplied by zero reduces to zero. If we multiply any number greater than unity by itself again and again, the result increases and if we multiply any number less than unity by itself again and again the result decreases for example:

n = 2 X 2 X 2 X 2 X 2..... n times

$(1/2)n = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ n times

This process is similar to the process of capitalistic society. In the capitalistic society the rich become richer and the poor poorer. We know that the differentiation of a variable is either a variable or a constant, but the differentiation of a constant is zero. To explain this, we may say that one who is dynamical and adjust himself according to the needs of our society lives happily in the society, but one who is rigid and does not like to adjust with the society cannot lives in the society and therefore he will perish.

Any finite number, when multiplied by zero the result is zero, and when any finite number is multiplied by infinity, the result is infinity. But when zero is multiplied by infinity the result indeterminate. Here zero and infinity may be considered very powerful. When a week person conflicts with the powerful person he is bound to lose. But when two equally powerful persons conflict, the result is draw. A function is said to be continuous in a region, if it is continuous at all the points of the region. Similarly in a society a person is said to be absolutely good, if he is good to everybody.

If a point (,) lies on ax + by+ c = 0, then it must satisfy it. Similarly if a man belongs to a community he should satisfy the community. In other words he should follow rules all rules and regulations of the community. Sometimes, we resolve an algebraic function into partial fractions and then integrate it. In the same way politicians always divide and rule.

We have $\sin x = x - x^3/6 + x^5/120 + \dots$

But for a practical purpose, we take only the first few terms, In life, though absolute idealism is considered a virtue, it cannot be practiced

Sometimes a theorem of mathematics has certain necessary and sufficient conditions. These conditions have their own importance, as in life air is necessary but not sufficient.

We know that if f(-x) = -f(x), then f(x) is said to be odd, and if f(-x) = f(x), then f(x) is said to be even. In the case of odd function f(x), if we assign a positive value x then f(x) is positive, but if we assign a negative value to x, f(x) is negative. But in the case of even function (x), whether we assign a positive value or a negative value to x, (x) always remains positive. So we can conclude that an odd function behaves as opportunist and an even function behaves as a man of principle.

Infinite series occur so frequently in all type of problems that the necessity of studying their convergences and divergence is very important. Unless a series employed in investigations is convergent, it may lead to absurd conclusions. Recently, when I taught convergence of infinite series to my engineering students, I found some interesting aspects of comparison test. We know that if two positive term series Σ Un and Σ Vn be such that

(1) Σ Un diverges, and

(2) Vn < Un for all values of n, then Σ Vn also diverges. Let us consider the divergent series Σ Un as a community of rascals, which has U1, U2, U3 as its members. If we have another community Σ Vn, whose members V1, V2, V3 are such that every member of this community is more rascal than the corresponding member of the community SUn. Therefore, it is obvious that S Vn is also a community of rascals. Students responded to the question about the nature of maths in a number of ways. A notable group of students were unable to give any response at all. Those who did respond to interpret the question in a variety of different ways. Some children appeared to interpret the question in terms of their immediate mathematics learning in the classroom. Other children interpreted the question in terms of the purpose of mathematics for them in the "here and-now."

Another group also interpreted the question with respect to the purpose of mathematics, but considered this in terms of their long-term futures. The final group of students seemed to have really thought about the nature of mathematics and commented on the intrinsic value of learning mathematics.

CONCLUSION

Unleashing Innovation: The Power of Today's Youth

In a world driven by technology and rapid change, the innovative prowess of today's youth is breaking new ground. From developing lifechanging apps to spearheading environmental initiatives, the younger generation is carving a unique path towards progress. These trailblazers are leveraging their fresh perspectives, boundless creativity, and digital fluency to address pressing global challenges.

Take, for instance, the rise of young entrepreneurs who are disrupting traditional industries. Armed with a deep understanding of digital platforms, they are reshaping commerce, communication, and even education. Simultaneously, young activists are taking a stand against climate change, advocating for social justice, and demanding political accountability.

The future shines brighter with each innovative endeavor undertaken by these young minds. Through collaboration, empowerment, and an unyielding drive to make a difference, they are proving that age is no barrier to shaping a better world. As their initiatives continue to gain traction, it's evident that the innovative youth are the architects of a promising tomorrow.

- Mr. Manav Kumawat (ECE Student)



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