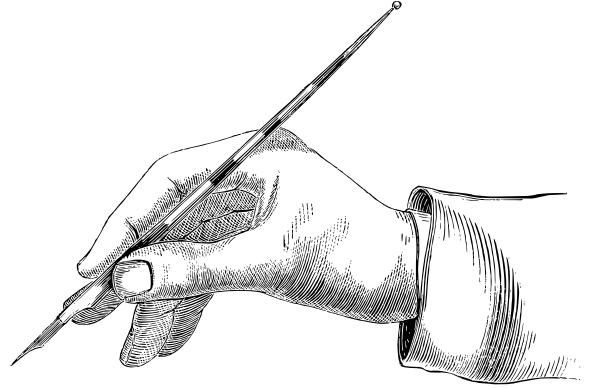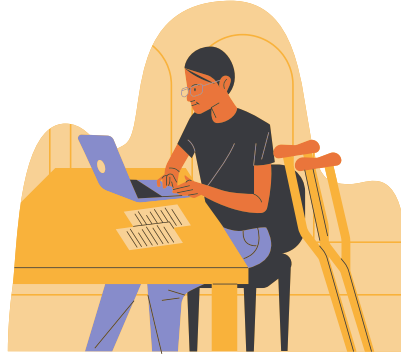# SSSUTMS *eKnowledge*

Guided By :

डॉ. मुकेश तिवारी,
प्रोफेसर, वीसी
श्री सत्य साईं यूनिवर्सिटी ऑफ़ टेक्नोलॉजी एंड
मेडिकल साइंसेज सीहोर, (मप्र)
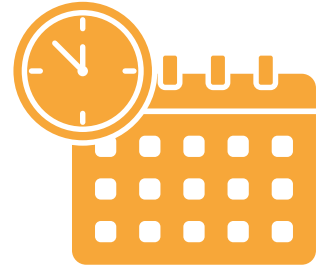
Prepared By :

डॉ. अजय कुमार चौबे,
एसोसिएट प्रोफेसर

Activities , पेज 1-3

Article, पेज 4-12

Upcoming , पेज 13

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स्टूडेंट्स, फैकल्टी या यूनिवर्सिटी से जुड़े सभी, अपनी रचना, शोध, करियर, स्टार्टअप या एजुकेशन से जुड़े लेख को शेयर करने के लिए, नीचे दिए ईमेल पर संपर्क करे -

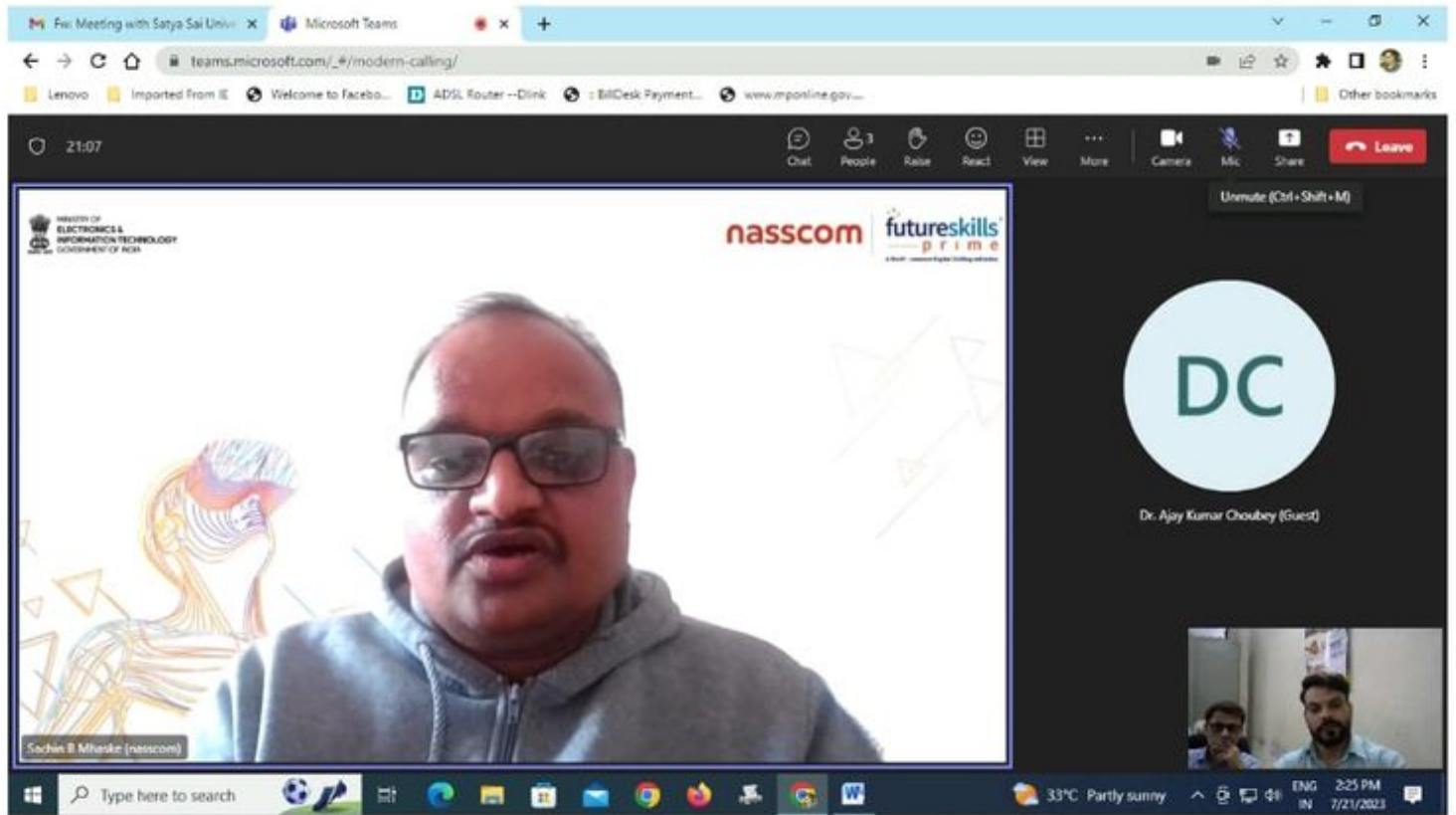info@sssutms.co.in

University Activity

प्रदेशव्यापी वृहद वृक्षारोपण अभियान के शुभारंभ के अवसर पर 15/07/2023 को श्री सत्य साईं यूनिवर्सिटी टेक्नोलॉजी एंड मेडिकल साइंस सीहोर के विधि विभाग एवं स्कूल ऑफ़ फार्मेसी के छात्र/छात्रों ने प्रदेशव्यापी वृहद वृक्षारोपण अभियान के अवसर पर शनिवार को विश्वविद्यालय परिसर मैं पौधारोपण किया l यह कार्यक्रम प्रदेश राज्य विधिक सेवा प्राधिकरण जबलपुर के सहयोग से किया गया |

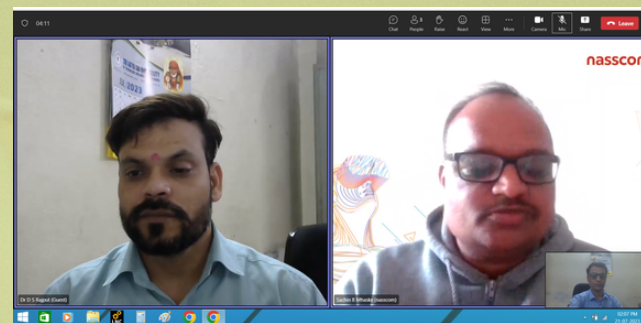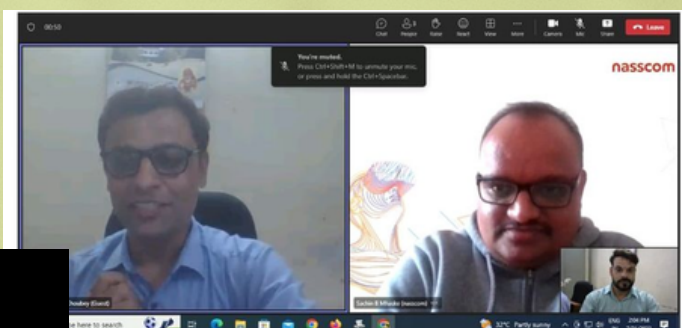# Academic Activity

Sri Satya Sai University of Technology and Medical Sciences faculty recently got an opportunity to meet and interact with NASSCOM officials. The benefit of this meeting will be for university students who will get the opportunity to enroll in advanced courses offered by MeitY and NASSCOM.

Research Activity

Dr. Narendra Sharma and Shri Sudeesh Chouhan were granted a patent for "IOT Enabled Chemical Mixing Device For Agriculture Farm."

Dr Narendra Sharma
Associate Professor
Computer Science & Engineering

Mr. Sudeesh Chouhan
Assistant Professor
Computer Science & Engineering

The faculty of SSSUTMS presented an innovative idea before the Lok Sabha Speaker in a program organized by the Government organization, And they were also honored and appreciated.

लोकसभा अध्यक्ष श्री ओम बिरला जी के सामने डॉ अजय कुमार चौबे ने अपने इनोवेशन को प्रस्तुत किया, उन्होंने इसे ध्यान से सुना और इनिशिएटिव की सराहना की। यह इनोवेशन कौशल शिक्षा के लिए है।
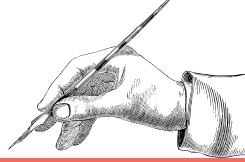
CLEAN TECHNOLOGY: TRANSFORMING THE WORLD TOWARDS SUSTAINABILITY

Dr. Anuradha Devi
Associate Professor
Department of Chemical Engineering

Introduction:

Clean technology, also known as clean-tech or green technology, refers to the development and utilization of innovative solutions that minimize negative environmental impacts while promoting sustainable practices. It encompasses a broad range of sectors, including energy, transportation, waste management, agriculture, and more. Clean technology aims to address pressing environmental challenges while driving economic growth and improving quality of life. This write-up explores the scope of clean technology and provides examples of its transformative impact on various industries.

Scope of Clean Technology:

Renewable Energy: Clean technology plays a vital role in the transition from fossil fuels to renewable energy sources. Solar power, wind energy, hydropower, and geothermal energy are prime examples of clean technologies that reduce greenhouse gas emissions and combat climate change. These technologies have witnessed significant advancements, making renewable energy sources more accessible, affordable, and efficient.

Energy Storage: The integration of energy storage systems is a crucial component of clean technology. Batteries, flywheels, and pumped hydro storage are examples of advanced energy storage solutions that enable the efficient harnessing and utilization of renewable energy. Energy storage technologies contribute to grid stability, facilitate the adoption of intermittent renewable sources, and promote energy independence.

Electric Mobility:

Clean technology has revolutionized the transportation sector with the advent of electric vehicles (EVs). Electric cars, buses, and bicycles powered by rechargeable batteries offer reduced carbon emissions, lower operational costs, and improved air quality. The development of charging infrastructure and advancements in battery technology are driving the widespread adoption of EVs and fostering a transition to sustainable transportation.

Waste Management:

Clean technology is instrumental in optimizing waste management processes. Innovations such as recycling and waste-to-energy conversion reduce the environmental impact of waste disposal. Advanced sorting technologies, composting systems, and anaerobic digesters contribute to the efficient management of waste, minimizing landfill usage, and recovering valuable resources.

Water Treatment:

Clean technology plays a significant role in ensuring clean and accessible water supplies. Advanced water treatment processes, including desalination, membrane filtration, and water reuse systems, help meet growing water demands while conserving resources. These technologies mitigate water scarcity, promote sustainable agriculture, and improve public health.

Sustainable Agriculture:

Clean technology enhances agricultural practices by minimizing resource use and environmental impact. Precision agriculture tools, such as sensor-based irrigation systems and data-driven farming techniques, optimize crop yields while reducing water and fertilizer usage. Vertical farming, hydroponics, and aquaponics systems promote efficient land use and year-round crop production.

Smart Grids and Energy Efficiency:

Clean technology is instrumental in creating smart grids and promoting energy efficiency. Intelligent grid systems enable real-time monitoring, control, and optimization of electricity distribution, integrating renewable sources and promoting energy conservation. Energy-efficient appliances, smart thermostats, and building automation systems further enhance energy conservation in residential, commercial, and industrial settings.
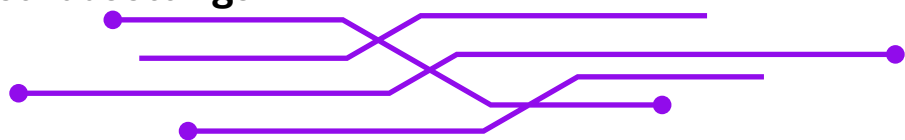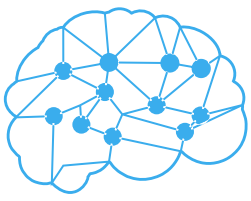
Following are some commercial examples of clean technology:

- **Tesla:**
- **Enphase Energy:**
- **Nest:**
- **Opus 12:**
- **Proterra:**
- **Waste Management Inc.:**
- **Fluence:**
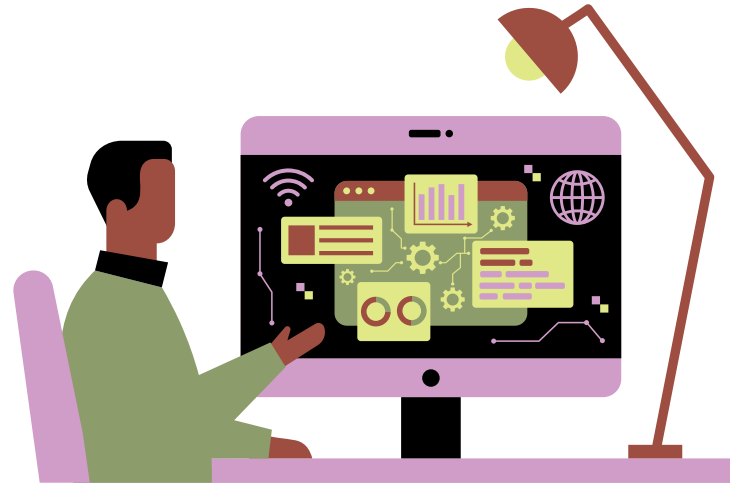
Conclusion:

Clean technology is transforming industries across the globe, offering sustainable solutions to pressing environmental challenges. From renewable energy generation to waste management and sustainable agriculture, clean technologies are paving the way for a greener and more sustainable future. The scope of clean technology is continually expanding as advancements in science, engineering, and policy drive innovation and adoption. By harnessing the potential of clean technology, society can achieve a harmonious balance between economic growth and environmental stewardship, ensuring a brighter future for generations to come.
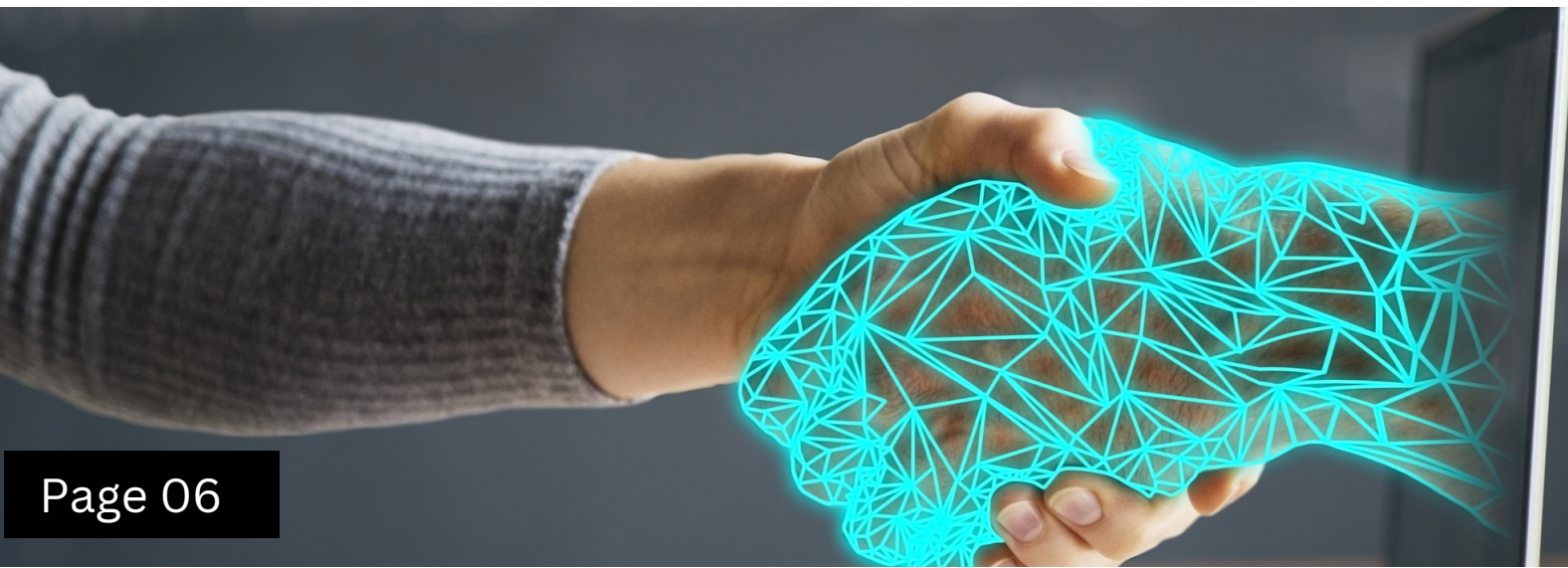
Impact of E-learning

Dr. Santosh Jagwani
Associate Professor
(Education)

E-learning refers to learning supported by electronic media. E-learning is an educational resource that integrates individual motivation, communication, efficiency, and technology. It is effective as it eliminates distances and subsequent commutes. E-learning is an achievement of information along with ability all through automated skills associated to electronic tools like processor, internet, online courses and limited as well as widespread area networks.

E-learning refers to utilizing e-resources in the e-world. Using the huge expansion of several skills, now, learning is no longer limited to classrooms with lecture distribution or as only the method of transmission of information, moderately, an electronic means of education has constant to rise. E-learning education is being assisted using communications networks, Internet, wide area networks or local area networks, innovative tools of e-learning have made learning possible from anywhere and at any time. The students who used to spend their time in library searching for information in books and journals can now-a-days, use search engines and figure out the web sites for the information needed, thus making information sharing is become a very easy task.

Recently a lot of e-learning platforms-commercial or open source have also been developed. Open source allows source code of the software available to others, For certain fields of e-learning and Information Management an open Content is recognized an auspicious idea. Together E-learning and open source applications have gained prominence. E-learning probably is a single means by which education and training can reach greater to the number of people.

The broadest e-learning utilization nowadays is the Learning Management System (LMS), A Learning Management System can be believed as a stage in which online ways or online mechanisms of courses are collected and recycled. Learning Management System (LMS) is a software solution that enables the management and delivery of online content to learners. It is a web based episode of e-learning that facilitate the learner to learn "anytime, anywhere, any pace". It's Behaviors includes use of computer, CBT, CMI, CBI, Multimedia, ICT, Internet/Intranet, Smart Classes, Distance Learning, Mobile Learning and Web based Learning. E-learning is Specified through: Independence of learning place, Fast distribution and dissemination of new information to many people, Multimedia and interactive learning motivates and ensures learning success, Suitability, Modification and Learner Controlled manners.

The Role of Multimedia and Graphics in Human Life

Gaurav Saxena
**Assistant Professor**
Department of CSE & IT

Multimedia and graphics have revolutionized the way we experience and interact with the world, playing an indispensable role in human life. With their diverse applications across various fields, they have become an integral part of our daily existence.

In the realm of education, multimedia has redefined the learning process, making it more engaging and interactive. With the aid of graphics, complex concepts can be visually presented, simplifying comprehension and enhancing retention. Students can now access a wealth of knowledge through videos, animations, and interactive simulations, fostering a deeper understanding of subjects.

In the entertainment industry, multimedia has enriched our leisure time immensely. From captivating video games that transport us to virtual worlds to immersive movies and TV shows that evoke emotions, graphics have the power to evoke a wide range of feelings and create unforgettable experiences.

Multimedia and graphics also play a pivotal role in communication. Through social media platforms, individuals can share multimedia content, including images, videos, and graphics, allowing them to connect and express themselves creatively with a global audience.

In advertising and marketing, graphics have become indispensable tools to capture attention and convey messages effectively. Eye-catching visuals and multimedia content have the potential to leave a lasting impression on consumers, influencing their choices and decisions.
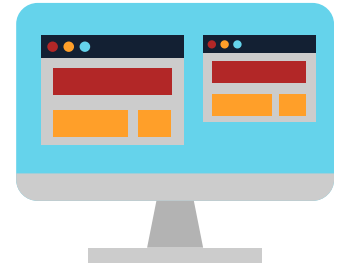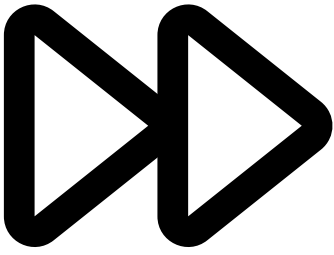
Additionally, multimedia has revolutionized healthcare, enabling doctors to utilize interactive graphics and simulations to better explain medical procedures to patients, leading to improved patient outcomes and increased trust in medical practices.

In conclusion, the role of multimedia and graphics in human life cannot be underestimated. Their pervasive influence has transformed the way we learn, communicate, entertain, and even seek medical attention. As technology continues to advance, the integration of multimedia and graphics will only continue to enrich and shape our lives in ways we could not have imagined before.

Understanding Time-Management Strategies & Techniques

Mr. ASHUTOSH FARELA
ASSISTANT PROFESSOR
SCHOOL OF
MANAGEMENT STDUIES

Introduction

Time management is the coordination of tasks and activities to maximize the effectiveness of an individual's efforts. Essentially, the purpose of time management is to enable people to get more and better work done in less time.

Understanding, identifying and defining your long-term goals is the very first step for an effective time management. With the broader goal at the background, you can now set your short-term goals that may effectively lead you to achieving your long cherished long-term goals in your life.

Strategies & Techniques

In the process you may be facing situations that may not be to your liking and you may even contradict many of your decisions. The most commonly committed blunder in any time management is that many people are not willing to accept a reasonable life-style. For maintaining one's health in a good condition, the person should get good nutrition, sufficient exercise and proper sleep.

Like this, there are certain other factors such as social relationship, desires, feelings, spiritual and intellectual needs, etc., for making one's life fruitful and whole and the pathetic situation today is that we are not bothered to look into many of these aspects and lead our life in a very sorry state of affairs.

Despite the Time management being easy and very reasonably required to be practiced in one's life, many people do not even bothers to know about it, leave alone practicing it. Of late, if you have found that you are running short of time even for completing many of your regular schedules, then remember that you are becoming a part and parcel of a larger population that manage time very badly.

Few of the under mentioned strategies or suggestions can help you in your need for a better time management skills that you have been aspiring for long:

First understand your need and identify your long-term goals in clear terms. Keep a watch over your defined long-term goals and make a review at regular intervals. Your prime aim should be to achieve your long-term goals and hence you should not allow any of the trivial matters and unnecessary tasks to pose as a hindrance to your either long-term goal or your present balanced life style.

The main enemy in your life is your impulsive behavior to a given situation or your needs. Ascertain and weigh all your needs and spontaneous urges thoroughly and take a calculated decision with your long-term goal in your mind. If you are a student studying in college or school, then proper time management is a must so as make your curriculum more meaningful and useful.

In case you miss or mess up any of the important appointments and assignments, then they may prove to be very costly in your academic career and as well as in your life. The resultant guilt feeling, anxious moments, frustration and other undesirable feelings that may creep or crop up in your mind unknowingly may be very detrimental and hence you should learn to prioritize your various actions and engagements so as to strike a balance in your life.

UPCOMING EVENTS

Sri Satya Sai University of Technology and Medical Sciences, Sehore, Organizing Mendeley workshop Powered by Elsevier, Expert Speaker Mr. Tanveer Singh Project Manager, IIT Bombay Spoken Tutorial .

जरुरी - इस पुस्तिका में सभी लेख और तथ्य, कई सामग्रियों के अध्ययन के बाद लिए गए है, साथ ही ये लेखक की अपनी सोच है, पाठक इस पर अपनी राय अपने विवेक से लें . - धन्यवाद