



VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

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CAMPUS CHRONICLES 2019 TECHNICAL MAGAZINE



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VISION

To empower female students with professional education using creative & innovative technical practices of global competence and research aptitude to become competitive engineers with ethical values and entrepreneurial skills.

MISSION

To impart value based professional education through creative and innovative teaching-learning process to face the global challenges of the new era technology.

To inculcate research aptitude and to bring out creativity in students by imparting engineering knowledge imbining interpersonal skills to promote innovation, research and entrepreneurship.

ABOUT US

Vignan's Institute of Management and Technology For Women, is the brainchild of Dr. L Rathaiah, Chairman, Vignan Group of Institutions, was founded during, August, in 2008, with four branches of Engineering.

VMTW is an exemplary institution of higher learning with a mission of pursuing excellence in education and research. The institution, with their diverse and dynamic community of about 2000 students offers a distinctive combination of some of the finest facilities for MCA, MBA and M.Tech. with 5 different graduate, and undergraduate programs ECE, CSE, IT accomplished faculty, world class facilities with hostel set on a sprawling area of 22 acres sylvan surroundings of mango groves and greenery.

While students at VMTW immerse themselves in academics, the college has a lot in store for them outside the classroom. Student life includes participation in sports, recreational & co-curricular and cultural activities. In short, at VMTW, students will find an academic and social environment where everyone from faculty members to peers help shape their future.

VMTW is a home to aesthetically designed buildings with state of the-art computer and internet facilities, modern laboratories, workshops, seminar halls, auditoriums and well stocked libraries, sports and games fields.

The Institution boasts of a strong alumni network with alumni events held every year serving as a platform for past students to give back to VMTW and share their experiences with its present fellow students. With so much to offer, it is only natural that students of VMTW get a unique opportunity to carve a niche for themselves in their chosen field of study that enables them to become well-rounded and discerning citizens, fully qualified for their chosen professions in the workplace. With so much to offer, it is only natural that students of VMTW get a unique opportunity to carve a niche for themselves in their chosen field of study that enables them to become well-rounded and discerning citizens, fully qualified for their chosen professions in the workplace.



Chairman Message

“Well Thought-out Reforms In Technical Education Is The Need Of The Hour”

We, in India today, are living in a transitional era. On one hand, we are swamped by the global financial meltdown while on the other; we are witnessing a slow but sure revival of the manufacturing and agricultural sectors. It is evident that highly trained and skilled professionals will be needed in vast numbers to enable our country's transition towards industrial and financial self-sufficiency. In this changing scenario, technology will continue to be a major catalyst for enabling the country's transformation. So the demand for quality technical education in India is huge.

In Telangana, we often mention with pride that the state has the largest number of technical/professional institutions to impart skill based education to fulfill the needs of the industry. However the fact remains that, in spite of the large number of engineers churned out from the 300 and odd colleges every year, there continues to be an unbridged gap between the needs of the Industry and the skill set that the engineering students possess. Thus we are faced with a paradoxical situation where employers keep scouting for employees and vice versa.

The problem is not difficult to analyze. In spite of possessing impressive infrastructure and high-tech labs, the quality of technical education imparted in most engineering colleges is woefully poor. Despite the proliferation of colleges, the demand for holistic engineering education remains as high as ever. A keen introspection by the administrative authorities both at the planning and executive level is needed to evolve effective supervisory and regulatory mechanisms so as to reinforce good standards of technical education. Unscrupulous practices compromising on the quality of education need to be checked. All engineering colleges in the state should vie with each other to develop wholesome systems contributing to innovative teaching - learning practices, which will upscale the educational standards in the state and serve the future generation of students in realizing their dreams.

We at Vignan group of institutions resolve to rededicate ourselves to the cause of the nation the march towards Vision 2020, the dream of seeing India as a developed nation...



CEO Message

Vignan, a trusted name for quality education in Andhra Pradesh, has always been figuring among the top due to its commitment to student centric initiatives through out its existence of more than three decades even in the unprecedented proliferation of professional institutions in AP during the last decade.

Vignan with its inherent capability to capture the pulse of youth has grasped their aspirations, speed and intellectual capabilities and tuned its curriculum to fulfill their needs.

Vignan provides world class training in transferring subject knowledge, communication and team working skills in learning centered fashion and enables its students to face the global arena with confidence.

With its excellent infrastructure, committed and qualified faculty, strong teaching-learning processes and more importantly a meticulously designed student counseling system, Vignan is indeed the right choice to pursue engineering education and secure placements in top notch companies or admissions in reputed international universities for higher studies. Besides academics, at Vignan, we strive for the integrated development of the students through several internal student professional bodies designed to bring out the best from them



Principal Message

It gives me great pleasure to invite you to take an initial peek into the heart that beats behind the appealing façade of VMTW. I thank you for your interest in this exceptional institution which has recorded decades of constant development, in the course of which it has accomplished much, making it one of the colleges recognized for its excellence and therefore, much sought after by the fresh applicants.

VMTW tradition happily brings together sound academic achievement with an extensive, vibrant co-curricular programme that includes sports, and leadership training programmes. Our mission is to inculcate the love of

knowledge in our students and, for this, we aim to develop the skills and demeanour of lifelong 'learning,' essential for making responsible global citizens. This will make them immensely capable of facing the future with resilience and optimism. On the deeper level, we try to instil the values of respect and trust in relationships that are the foundation of real success.

At VMTW then, we believe that 'education' is a wholesome, holistic exercise and as such we strive to give a whole new meaning to the word.; we care for the person—the accent is on the all-round development of personality. I wish you the best in the process of seeking to become a part of this family.

Fingerprint: A Strong Security Option for Securing Smartphone Data

By Ms. Syed Tabassum,
B. Tech (ECE) - 19UP1A0429

The usage of smartphones have become mandatory and also part of our daily lives. people now are opting to store any kind of data in soft copy format. So the data in smart phones before some years were protected by password or pin to secure it. Now the smartphones are updated to finger print lock to secure the data and are also much safer compared to the old pattern.

Recently, a large number of smartphones are adopting fingerprint confirmation as a technique to verify their users. Fingerprint impression is not only used for unlocking today's smartphone, but it also acts as a security measure for online payment applications. In this manner, it is crucial to get the fingerprint verification tool for dependable administrations.

Current advances in smartphone technologies empowered users to do different task utilizing their smartphones. These tasks incorporate not just basic ones like playing portable games and browsing the web, yet additionally more crucial ones, specifically, those managing with private data and financial information. With the extension of the Cyber-Physical System (CPS) idea, smartphones have come to establish a competitive stage that associates people and the surrounding physical world. Alongside the

communication capacities and mobility of cellular phones, smartphones have different sensors in addition to enormously improved performances and storage space in contrast with the existing cellular phones. A solid mechanism is needed to check the identity of an individual who attempts to utilize the device. Nonetheless, traditional secret information based solutions like passwords, numeric PINs and pattern locks have security issues, for example, password assuming attacks, brute power attacks, and shoulder-surfing attacks. Anyway the "unlock" method of smartphones and the requirement for user passwords while getting to SNSs prove to be great fault in smartphone security. Hence, smartphone security ought to be upgraded through biometrics, which can compensate for the weaknesses of passwords. Additionally, they also have usability issues in light of the fact that a user should remember some information and do an unwieldy task for sign on like typing a password and drawing a pattern. To resolve these issues, fingerprint recognition is currently being utilized for a large number, for example, iPhone 5s, Galaxy S5, Blackberry,

etc. Fingerprint recognition is utilized both for unlocking a smartphone and for actuating other security-basic functionalities in the smartphone, for example, for approving transactions in online payment applications.

The minutiae based fingerprint verification strategy is generally utilized fingerprint verification technique. Considering that this technique is exceptionally effective for contrasting fingerprints and the required data size is also little. A verification technique dependent on it can be miniaturized and would be useful for realtime scanning. One of the reason for extensive use of this method. Nonetheless, the minutiae based fingerprint verification technique is tormented by low execution in regions where preregistered and current input fingerprints cross-over or image of the input fingerprint is minute and the particulars extracted are lacking for verification. These issues lead to the event of broken matching, subsequently rejecting authorized user. To keep away from defective matching and further develop verification

performance, numerous analysts have explored the pre-processing of fingerprint pictures for further developing fingerprint verification executions, improvement of the enlisted templates' quality, adoption of fingerprint matching process with techniques that can utilize the separated templates successfully, and templates security for defending leaks of registered templates. Many investigations on techniques for overcoming the issues related with the fingerprint matching method with strategy utilizing direction channels (rather than minutiae), phase data and fingerprint images have been done.

Conclusion: The conclusion is that these smartphones have a crucial part of our lives and for the present generation even the school classes are running online, college students are preparing from softcopy notes like portable document format(pdf) in such cases this feature helps people a lot to secure their documents and important information safely compared to other.



How to Fight Depression?

By Ms. Anoushika Vennamaneni, B. Tech (ECE) - 19UP1A0481

Title seems very interesting right? But, it actually isn't. No, I'm not going to write a research article just like other Btech students. This article is all about depression which is least spoken among students yet a serious issue to be solved.

Let's talk about some symptoms of depression the first one which hits the list is not feeling like doing anything all day, you'll have feelings like helplessness, hopelessness, worthlessness, irritability, and anxiety. Changes in sleeping pattern, Loss of appetite. You cannot even concentrate or make your own decisions when you are depressed. These are the common symptoms faced by a depressed person and some students unknowingly will go through these at least once in their college period. According to the latest survey, one in six students aged between 10-20 is suffering from depression. This number has been increasing rapidly and this is a serious issue to be resolved here are some activities which will make you feel better if you are going through this

Walking around the park can make you feel better and it's important to spend some of your time with

nature. The second most important thing is start loving yourself don't try to make yourself down no matter what also stop expecting everybody to like you don't worry even you don't like most of people. Feel happy for what you have and accept the present state of your mind don't get lost in assuming your future. Spend some of your time doing your favourite activities it may be singing, dancing, painting, reading, or talking to your loved ones. When you don't feel like doing anything just get up and start thinking about your dreams which will self-motivate you. I know it's hard but once you start practicing them there is no looking back.

I conclude my article by giving some suggestions to the parents and also educational institutions. Students get depressed even out of stress and you'll never know how it feels this is the reason why most of the students are attempting suicide. It is important to educate your students regarding this and give them hope and build strong young minds.

AT LAST ALL YOU CAN DO IS SEEK FOR A HELP.

We are here for you to help each other. Take care of your mental health.



VAS'SUM

“Wow for her! Awesome for earth! Period”

By Ms. V. L. Vasundhara,
B. Tech (ECE) - 19UP1A0441

An idea to revolutionize the menstrual health and hygiene space with nanotechnology and innovative interventions to enhance the comfort factor for women during menstruation and create a systemic approach to deal with menstrual waste management in an eco-friendly way.

Menstrual hygiene continues to be amongst the most challenging development issues today. Menstruation and menstrual practices still face many social, cultural, and religious restrictions which are a big barrier in the path of menstrual hygiene management. In countries like India, women, and girls often lack access to hygiene sanitary materials and basic facilities. Only 36% of women use sanitary pads in India according to survey done by National Family Health 2015-16.

“Most of the Disposable sanitary napkins are a hazard because 70-90% of a sanitary pad is made of plastic,” One pad is equivalent to four plastic bags, so one can imagine the quantity of single-use non-biodegradable plastic generated every month from sanitary napkins. It's a strong enough issue to raise environmental concerns. Another major constituent in most of the sanitary pads available in the market are dioxin and super absorbent polymer (SAP) which have adverse health effects to women like rashes, urinary tract infections, genital cancer etc.

Our idea is to revolutionize the menstrual health and hygiene space with nanotechnology. It not only creates a comfort factor for women during menstruation but also creates a systematic approach to deal with menstrual waste management in an eco-friendly way. Most of the sanitary pads available in the market are harmful to feminine health and unsafe for environment as they use so much of plastic waste and SAP in their products.

In order to bring sanitary pads with less side effects, we are replacing SAP with nanofiber and using organic materials to ensure our product gives WOW experience to women and an awesome initiative to save the earth. Considering the large surface area and porosity, it is found that the nanofibers provide a better alternative to achieve even higher absorbency that too without adding SAP. Sanitary napkins without SAP can be a solution for its safe disposal, and therefore, can have global impact in the near future.





Induction Program

When new students enter VMTW, they come with diverse thoughts, backgrounds and preparations. It is important to help them adjust to the new environment and inculcate in them the ethos of the institution with a sense of larger purpose. We at VMTW planned a complete 2-week long induction program on August 7 2019 for our students, right at the start. Its purpose is to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them, society at large, and nature.



SPORTS





Sports club SNIST
Indian open engineering inter collegiate sp

ASHWATTHAMA second prize won by 3 year

3 year mounika cse VMTW



Prajwalan 2019

The prajwalan is the largest technical festival in central India. Since 2006, it has provided a platform for technocrats and ignited the minds of students. The event was held on September 2nd, 2019 at the Vignan Institute of Management and Technology for Women. Dr. Sudhakar Rao, the principal, and the Chief Guest.



Wild Flower

It was an absolutely beautiful rainy day. The winds were gently tickling my fragile petals. Then stopped a car near by making the wild even more silent. And a little girl carrying a camera came running to me from the car. An older man followed her, he might be her father. They look so resembling.

She started clicking pictures and she loved my natural beauty. Then tiny droplets of rain started attacking her camera. She ran towards the car to save her little thing, so did her father to save his little girl.

It was so cold as the first droplet kissed me. My little petals looked even more beautiful and fragile. The rain lasted for a little longer and the girl was waiting eagerly to lock me in her pictures. The rain stopped and I suddenly felt something so suffocating as she plucked me off with her tiny sharp nails to pose as her father started clicking our pictures.

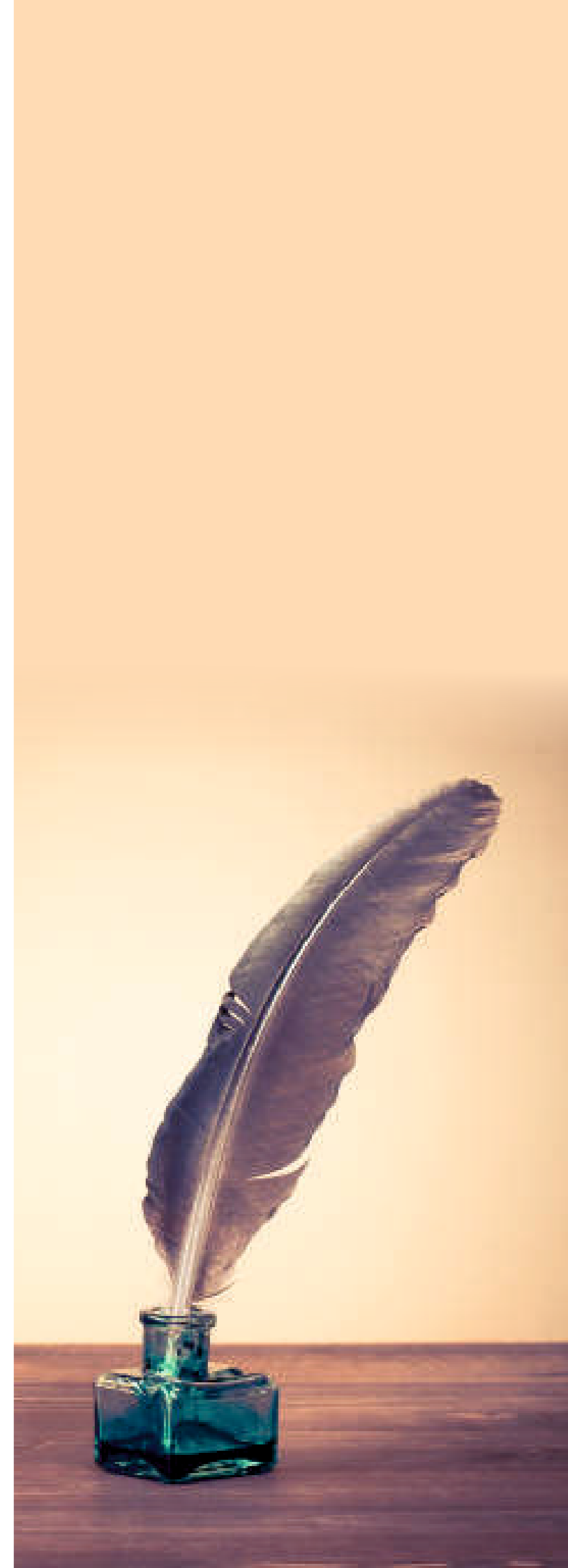
I was not at all sad. In fact I was the happiest one. I will always be eternal in that little girl's smile. I loved her at first sight. And then she gently kissed me and hid me in her warm hug. It felt so natural. Maybe, this is the true love that everyone speak about.

By Ms. P. Prasanna Lahari,
B.Tech (CSE) - 19UP1A0537

The Secret of the Machines

Kipling (1865-1936) was a prolific writer of short stories and poems, and in this poem he ponders new technology and machinery:

We were taken from the ore-bed and the mine,
We were melted in the furnace and the pit—
We were cast and wrought and hammered to design,
We were cut and filed and tooled and gauged to fit.
Some water, coal, and oil is all we ask,
And a thousandth of an inch to give us play:
And now, if you will set us to our task,
We will serve you four and twenty hours a day ...





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