DEPARTMENT OF INFORMATION TECHNOLOGY

COGNIZANCE

"BEGIN YOUR FUTURE WITH IT "

VISION

"TO DEVELOP PROFICIENT IT ENGINEERS FOR THE INDUSTRY AND SOCIETY."

MISSION

- TO ACHIEVE ACADEMIC EXCELLENCE.
- TO DEVELOP STUDENTS FOR BEING COMPETENT IN DYNAMIC IT ENVIRONMENT.
- TO ENCOURAGE RESEARCH AND INNOVATION.
- TO INCULCATE MORAL AND PROFESSIONAL ETHICS.

THE ESSENCE OF "COGNIZANCE" IS PERCEIVED IN ITS NAME ITSELF WHICH MEANS KNOWLEDGE AND AWARENESS. AT THE DEPARTMENT OF INFORMATION TECHNOLOGY WE STRIVE TO GET INTO A CONTINUOUS EDUCATION PROGRAM. TRUE EDUCATION IS TRAINING OF BOTH THE HEAD AND THE HEART. HERE, THROUGH OUR SENIORS WHO STARTED THIS NEWSLETTER, WE HAVE DEVELOPED AN ENVIRONMENT OF LOOKING AT THE POSITIVES IN ALL SITUATIONS AND FOCUSING ON OUR STRENGTHS. WE ARE FOLLOWING THE PATH THAT OUR SENIORS HAVE DISCOVERED AND TAKEN IT A BIT FURTHER AHEAD THROUGH OUR ASPIRATIONS AND PERSPIRATION. SO LETS ALL

"WITNESS THE FUTURE OF IT".

MESSAGE FROM HOD's DESK
Prof. Dr. Mrs. S.D. Deshpande

Perhaps none of us have ever realized that we will be facing a pandemic such as Covid-19, it will pose so much of uncertainty, change our lives so much .It has taught the world many things within the last months. It made us realize that there are so many gaps in Technology developments despite so many advances. Above all, it is established once again that even simple innovations can be the key to big success. At the present, it is desirable that you take note of the above and try to equip yourself with all-round capabilities and skills to keep fit. It may also call for changes in human resource requirements, outlook towards the careers, the career options and destinations. On the other side, there lie several opportunities too and the system always adopts though it takes some time. Stay motivated!!!

STAFF IN CHARGE's VIEW
Ms. Poonam Rakibe

"Persistence and Determination are the keys to success. Persistence is the commitment to finish what you have started, even if it means going an extra mile when the odds are stacked against you. The rate at which we go is irrelevant. In today's era, the changing nature of I.T. industry have made persistence and determination crucial than ever."

STUDENT CO-ORDINATOR's VIEW
Yash N. Kale

"We thank the Department of Information Technology on behalf of editorial team for giving us this unprecedented opportunity of working on the newsletter. Our motto for this enthralling opportunity was "Focus on the Journey, not the Destination". We hope that this newsletter is as ecstatic to the readers as it was to the editorial team."

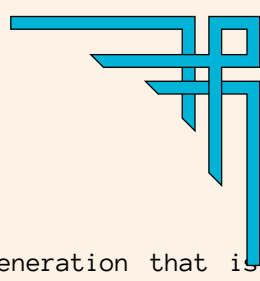# START GAINING EXPERIENCE AND LEARNING EARLY : SECRET TO SUCCESS

Career and what after basic schooling is something a big decision in life. Perhaps the changing point in life and career. Presently if you just watch around to the teenagers they are full with strong determination and are moving ahead in a planned manner. But, just recall few year back when awareness was much lacking, at that usually a certain stream was chosen by many people and even all followed each other without even thinking about self-interest in the particular field. Looking towards the present pressing employment problems, where we see even post graduates are unemployed, the only reason is failure in knowing self and following the rest. How one can like the same stream or career like their own friend or siblings?. Even it is a usual tradition to follow the elders advice for choosing career path. How even they know what the individual themselves like or good at?.

Many such question come in mind, in this light we interacted with a youth how launched his own start up and is successfully running it named Subodh Patil. Its simply amazing to see that youth today have their own vision towards their career and life path. But not all are that focused yet, but it is a need of the day that one should understand themselves first in order to make a strong and successful career in life. Above all is life, and if we wish to live it fully, then we need to work and learn in a filed where we are genuinely interested. If you take an example of any successful person they have reached at a point in there life, because they love what they do and this happiness is the only reason of living even. The rea secret is to start gaining experience early in life. When we start in teenage or at start of twenties we are in the stage of life where we are actually molding the further life ahead and the one who plans and learns in this phase can make the most of his life ahead. The more you explore the more your know and then eventually you are planning towards making life a better than before.

The one who takes such stand in life stand out differently and is able to make a wise career and life. Living such a planned life is the need of the day. SO start gaining experience early. Usually we see, many youngsters are advised to take education first and the experience. But, start working first and then gain education in the field of your interest. The more we learn and work , the more we can certainly achieve or perhaps plan to achieve, This is a journey which is going to check our inner patience and will power, the one who handles self along with learnings and keep learning, will surely gain success. In this walk a major hurdle is the procrastination or we usually hate to leave our comfort zone. Well, it is the natural feeling and all are going through it. But, the real effort is to come out of such comfort zone against our procrastination and work hard to gain something in life.The most tedious thing is to think and plan ahead. Even most toughest is to stick to plan which we have planned or created. The only secret if to be stick to our plans and work harder to make it a reality. The one who executes the same paves the way for incredible success in life.

Is [Artificial Intelligence](#) a Threat or a Benefit?

Artificial Intelligence is growing. That should not be a frightening thought to a generation that is growing up with it in the background. Its development has expanded extensively that it is not confined or limited to research laboratories anymore. Artificial Intelligence has been continuously gaining influence in different sectors, even in business, by its innovation to learn specific tasks with minimal command or input. Companies have taken notice of this. With the benefits of AI as an attractive package, businesses have begun investing in research and development to refine what Artificial Intelligence can do. Streamline it to focus its purpose for getting tasks done and witness taking advantage of the benefits that AI brings to their industries, whether it is local or worldwide. Artificial Intelligence is the advancement of computer systems capable of accomplishing tasks that require intelligence. These tasks include decision-making, speech and emotion-recognition, and visual perception. This is just the basic things that AI can do. We are talking about computer systems and algorithms that can replicate human skills. Artificial Intelligence, as well as machine learning and deep learning, are able to recognize different patterns and make necessary algorithms to replicate human behavior. These technologies can perform these tasks with large quantities of data available, based on what humans think and how they perform tasks.

Changes in the Workplace

Whether large or small enterprises, the workplace is affected by the impact of Artificial Intelligence. One obvious benefit of AI for companies is the ability to improve the quality and accuracy of production results while performing tasks faster. With the enormous amount of data that AI can use to "learn," decisions will be made with a higher rate of accuracy. As the amount of information and data increases, along with the increase in the speed of processing it, manual decisions will then be addressed and exceeded by digital real-time decision-making. Amid the benefits, there are workplace traditions, practices, and habits that can be a hindrance to the application of AI in the workplace.

AI has been utilized in HR to reduce repetitive tasks, lessen manual work, and speed up operations. There are AI-enabled applicant tracking systems that help develop job searches, browse through numerous resumes, choose the right applicant for the position, and do the initial interview before endorsing it to their human counterpart. This facet of AI-enabled systems eliminates hindrances in the recruitment process and makes sure that the applicant gets an unbiased, objective, and equal-opportunity selection system.

AI is, sort of, disrupting the workplace by bringing change. We, humans, are creatures of habit, and we tend to fear what we do not understand, especially if it brings in the possibility of being replaced by a machine, a program, or even an app. In some way, that notion has basis and credibility since machines for production and service efficiency have replaced workers. But "jobs" and skills that AI is being implemented for are meant to take off the mundane and monotonous part of the workplace help human resources go to the next level. If we fear AI, then we are significantly underestimating who we are and what we are truly capable of.

Changes in Customer-related Service

AI is expected to change customer support even more as the years go by. Customer Experience (CX) is critical for any business. AI has been used to do the initial sorting of customer complaints, inquiries, and applications for services before endorsing the customer to the right department that would address their needs. But AI is growing further than that. Sentiment analysis technology is being added to customer support software that would have the ability to handle inquiries and complaints effectively. AI-enabled customer support software will effectively assist in giving quick and accurate answers to the customers and build greater engagement with your target market. And because AI can learn massive amounts of data, it can effectively provide customer service and upsell opportunities that would benefit the business.

Changes in Communication

Development in communication technology and the integration of AI into systems of communication has led to leaps of improvements in speech recognition and translation. Access to data and powerful computing capacity is available for your communication needs. Apps equipped with powerful microchips can "hear" and translate words of a different dialect or language while in a conversation. The development of even more complex and intelligent algorithms enables businesses to business (B2B) communication of relevant data and information between the entities involved in a much quicker pace. It's because real-time intelligence and statistics are available in making complex decision-making. It also enables businesses to have a global presence and also become globally competitive. With proper real-time communication of essential data, businesses can adapt and be optimized to the different trends in their intended market.

Changes in Security

Whether you are part of a big enterprise or a private individual, cybersecurity is a big concern nowadays. And Ai is an essential factor in both sides of the spectrum regarding cybersecurity. Hackers are known to be relentless in their endeavors. They attack every 39 seconds or an average of 2,244 times a day. An estimated 24,000 malicious apps being blocked every day. The attacks are significant in number and, most likely, AI-assisted. Some newer attacks include deep fake technology that is initially causing a challenge to content marketers and cybersecurity specialists. But, similarly, the other side of the spectrum also depends on AI-assisted apps, software, and programs. AI-enabled software assists in identifying vulnerabilities in a network effectively adjust to combat attacks, and provide solutions to counter with proper defense strategies. The roles of artificial intelligence in cybersecurity is also extensive to secure you and your systems.

Conclusion: AI is Meant to Make Lives Better

We have only touched the surface of what Artificial Intelligence can accomplish. But it essential to realize that AI is meant to make our lives better. It can be considered a tool to assist us to rise above our circumstances. In the emergence of AI technology, we may need to adapt and reassess ourselves. We will need to be equipped skills-wise and knowledge-wise on how to handle and prosper in a world that is continuously changing and improving as days move on.

ACTIVITIES

Conduction of Activities supplement academic curriculum and help in learning by doing. These activities help students to develop problem-solving, reasoning, critical thinking, creative thinking, communication, and collaborative abilities. The most important areas of development that help in character building and holistic grooming of children are cognitive development, communication development, social skill development, and physical development.

There are several activities which are conducted by IT department like Technical, Alumni related, Training and Placement, Soft skills, Non-technical competitions under various clubs such as ITSA, Pixinsight, App Club, Graphix club and professional chapters like CSI and ACM.

I.T.S.A. (Information Technology Students' Association)

1)Under ITSA a session was arranged online account of 6th International Yoga Day on 24th June 2020. It was arranged for all students and all faculties in order to know the importance of yoga in day to day life. Mrs.Rani Sharma shared her knowledge about different forms of "Yogasana" with their respective advantages. She also demonstrated "Suryanamaskar" and different forms of yogasane. She also expounded the advantages of Meditation. She also suggested practicing yoga daily for at least 30 minutes give us lot of benefits. Though the session was on online platform but still students enjoyed it a lot, they all enjoyed it by doing Meditation and yogasane
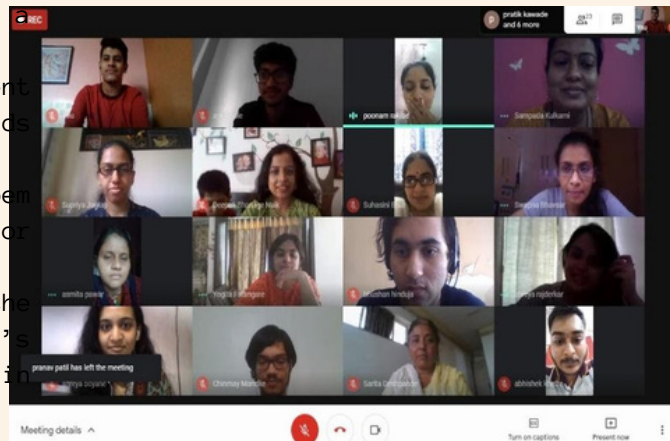

Engineers day celebration

The Information Technology Student Association(ITSA) had organized an online program to celebrate **"Engineers' Day"** on 19th September 2020..Some aluminis of the department of IT Invited For the same session .All of them shared their views on celebration of Engineers' Day. And also discussed the role of engineers in this lockdown/pandamic situation. Ms.Anagha Deore(2018 batch) shared her experience with students which motivated her to pursue engineering.Mr. Pradeesh Chandra(2018 batch) shared his views on how students as Engineers make an impact on the world.

Then Mr.Satyajit Deshmukh(2016 batch)shared experiences he faced while pursuing his engineering, and how it helped him in his Engineering career to face and solve the problems and issues encountered.Some alumni students also shared their experiences through videos.those video messages were also played during online session.some aluminis from abrod also shared their views on the same.

Teachers day

All the students of Department t of IT organized online celebration on the occasion OF **Teachers day** on 7th September 2020. Students of the department presented their gratitude's and appreciation towards teachers. The program started with a shloka followed by speech on teacher's day. Further Singing, Poem recitation and Dance performances were performed for entertainment of teachers by Se TE & BE students of our department. Games like Guess the song, Guess the movie and Guess the Emoji's were held for teacher's enjoyment. Students also showcased their creative in wishing Teachers by collage and video creation. Students also congratulated HOD of IT department
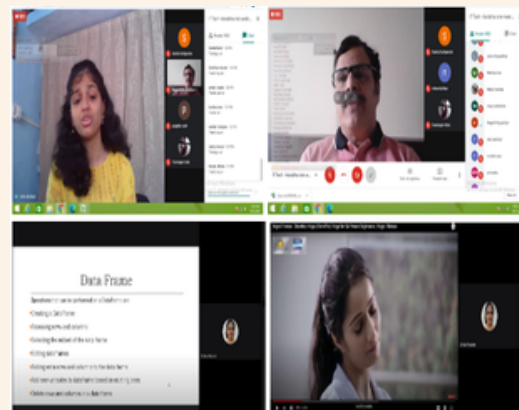
Dr..Prof.S.D.Deshpande for completing her Ph.d .Dr.Deshpande expressed her gratitude towards students & encouraged students for attending lectures even during pandemic situation. Department of Information Technology has organized a session on "Importance of Business Intelligence and analytics" on 12th November 2020 to understand the importance and opportunities of Business intelligence in today's world. Guest speaker Mr. Sangram Nawale has started the session by giving importance of BI and analytics. He has also explained about various BI tools. Further he has explained about Real world BI and analytics project.At the end, the speaker interacted with each student to solve their queries and to answer their questions.Students understood the importance of Business Intelligence. Students enjoyed this session thoroughly.

One week lecture series **"Tech Aarambh 2k20: A Journey towards excellence"** was conducted from 31st August 2020 to 5th September 2020 for all students Every individual day from the one week workshop was divided into two sessions. Among that, the first session of two hours is a speaker series by a guest speaker from Industry or from Academics.

"Tech Aarambh 2k20- A Journey towards excellence"

Guest speaker touched technical and non-technical subjects. After the guest speaker's valuable session, the internal faculty delivered a technical session and conducted hands-on practice on C++ Programming. The purpose behind the hands-on session is to bridge the gap between the syllabus and the concepts which are mandatory to continue with the challenging problem statements from or other than the routine syllabus
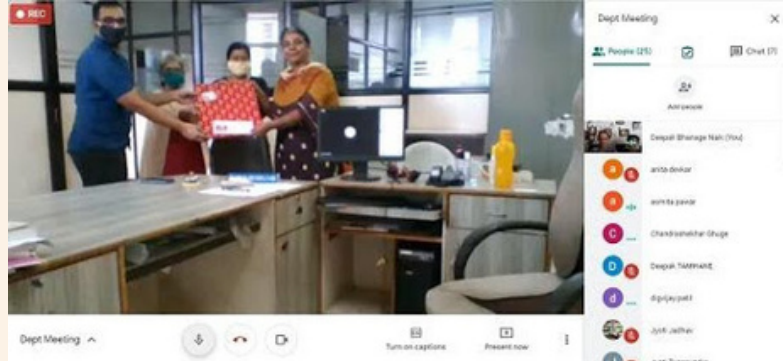
App Club

The session on mini project was conducted by Vallabh Hake and Rahul Mashere online through google meet on 3rd November 2020 .In the session the students were first given the basic understanding of mini project development. Using JSP how to project will be developed that knowledge is provided by the speaker. With help of code design they demonstrated the various modules of project.
They have explained how to make connectivity of database with JSP practically.

Perseverance is that one key that has landed you in such a remarkable position of attaining your Ph.D. degree. Kudos to Prof.Dr.Mrs.Sarita Deshpande (Head of The Department of Information Technology) for successfully completing Ph.D. on " Gesture Recognition of Indian Sign Language" in the area of Image Processing From Dr.Babasaheb Ambedkar Marathwada University, Aurangabad Many congrats and all the best for all your future endeavors and that you achieve all the more success after your Ph.D.

Congratulations

STUDENTS ACHIEVEMENTS

1. Shreya Pimprikar achieve Certificate of Volunteer World Youth Council for the program Teach From Home (COVID-19 edition)

2. Apeksha Bhalerao secured A grade in Core Java Programming(Rooman Technologies)
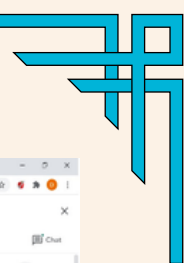

3. Apurva Phadtare secured A grade in Core Java Programming(Rooman Technologies)

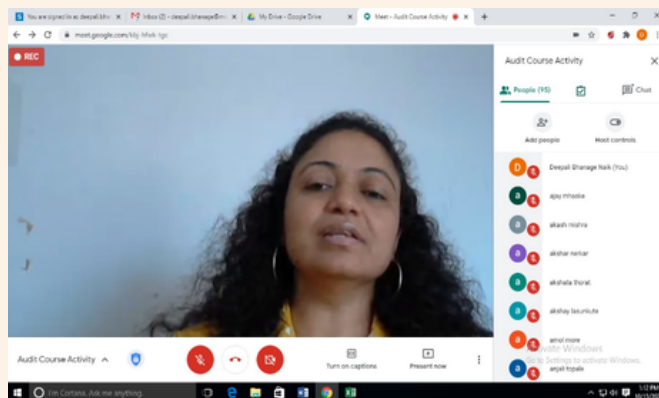4. Devika Shendkar secured A+ grade in Core Java Programming(Rooman Technologies)

5. Harsh Tiwari secured Rank 18 (out of 7109 participants) in Spotle AI-thon Level I - The AI Quiz

AUDIT COURSE

Under the course title Professional Ehics & Etiquettes 3 sessions were conducted which included topics like importance of good communication and documentation in professional work. Mrs Yashashree Jakhade from sinhagadh COE,Pune conducted few interesting activities by showing few jumbled words or images. She explained how to greet people in office by conducting small activity. Madam also flash light on dress code carry during interview. She has given few guidelines related to how to write professional messages, mails etc.

GraphiX club

The GraphIX Club of the Department of Information Technology had organized an online workshop on "USAGE OF GRAPHICS DESIGN TOOL : CANVA". our guest speaker Mrs. Aditee Metkar Metkar Student from Third Year Information Technology gave us a brief introduction of the Graphics design tool : Canva. She briefed us about the uses of the Canva tool for various purposes like creating presentations, leaflets,PPTs, logos, Instagram posts, e.t.c.Then she demonstrated us the functionalities and features of Canva. The students were asked to implement as well as explore the tool.At the end of the workshop students were given a task to create a logo/s for Teachers' YouTube channels.

PixInsight Club

The PixInsight Club has organized Collage Making Exhibition for intra department students with Theme: "Dipostav 2020 Hyavarshi Diwali, Gharachi Diwali" under PixInsight club on 18th of November 2020 through online platform (Google Form). Many students have made the collage out of their best Diwali Celebration photos and showcase their views, thoughts about the given theme "Dipostav 2020 Hyavarshi Diwali, Gharachi Diwali"

NEWSLETTER TEAM

Yash N. Kale

Arpita Kanade

Mrinali Darwesh