TECH OZRIC

MAGAZINE

ADVANCING KNOWLEDGE

THROUGH TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

KGISL INSTITUTE OF TECHNOLOGY, COIMBATORE – 641035

VISION

To produce Competent Graduates suitable for Industry and Organization in the field of Information Technology by providing industry embedded learning with social responsibility.

MISSION

MD-1: To accomplish an effective teaching learning process through innovative practices for empowering the graduates to face societal challenges.

MD-2: To enhance the proficiency of faculty members across various domains of information technology through skill development programs.

MD-3: To nurture IT professionals through the provision of essential infrastructure and facilities for effective learning.

MD-4: To attain research excellence in the field of information technology by instilling the values of self-directed learning and fostering creative thinking through collaborative partnerships with institutes and industries.

MD-5: To foster holistic student growth by engaging them in cocurricular and extracurricular activities.

PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

PEO1: Demonstrate technical competence with analytical and critical thinking to understand and meet the diversified requirements of industry, academia and research.

PEO2: Exhibit technical leadership, team skills and entrepreneurship skills to provide business solutions to real world problems.

PEO3: Work in multidisciplinary industries with social and environmental responsibility, work ethics and adaptability to address complex engineering and social problems.

PEO4: Pursue lifelong learning, use cutting edge technologies and involve in applied research to design optimal solutions.: Exhibit technical leadership, team skills and entrepreneurship skills to provide business solutions to real world problems.

PROGRAM SPECIFIC OUTCOMES (PSO'S)

PSO1: Develop and deploy software applications using advanced programming languages, data structures, and algorithms to address real-world IT challenges in areas such as system design, web development, and mobile computing.

PSO2: Design and manage IT-based business solutions by leveraging cloud computing, data analytics, and automation tools, demonstrating entrepreneurial capabilities in the IT services and product development sectors.

PSO3: Adapt to the dynamic IT industry by ethically embracing advancements such as artificial intelligence, cybersecurity, and blockchain, while contributing responsibly to societal, environmental, and organizational IT needs.

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Empathy: The Heart of Human Connection

By Ms. Sneha N S of II Year B.Tech-IT

Empathy is a highly valued trait and is essential for social interactions. Empathy is the ability to understand a person's emotions and feelings. It is an essential component for both professional as well as personal lives. It is the ability or trait to understand other people's values, beliefs and cultures.

Empathy is the power of connection. It is a sensation of experiencing what the other person is going through. It is seen as a cognitive ability—a trait to imagine future scenarios or solve problems based on past experiences. Empathy makes an individual capable of creating a psychic and emotional connection with another person. It enables a person to enter into another individual's mindscape. If a person feels connected to another person's mindset, it is impossible to mistreat them, except unintentionally. A person gets to recoil from their experience of suffering in the same way of recoiling for their individual suffering. It brings a sense of desire to aid the person suffering.

There are several states of empathy which include, cognitive empathy, affective empathy and somatic empathy. Cognitive empathy is the capability to understand another person's mental state. Affective empathy is also known as emotional empathy. It is the ability of a person to respond with an appropriate emotion to another person's mental state. Somatic empathy is based on the physical reaction of an individual. It is based on mirror neuron responses.

Empathy manifests in education as well in between teachers and students. Empathy becomes difficult when there are differences between people regarding culture, language, skin colour, gender and age. Empathy is considered as a motivating factor for unselfish behaviour. Lack of empathy is similar to antisocial behaviour. Empathy develops deep roots in our brains, as our evolutionary history. Having empathy does not mean that a person is willing to help someone. It is an essential step toward compassionate action. Empathy forms one of the most critical components of creating harmonious relationships. It reduces stress and enhances emotional awareness. People are well attuned to their feelings and emotions. Getting into someone's head can be challenging at times. People tend to be empathetic when they listen to what others have to say. It makes an individual overwhelmed by tragic incidents. Empathy can make an individual concerned about the well-being of another individual.

Empathy helps to make an individual a better person. By understanding what people are thinking and feeling, people can respond appropriately. Social connections build up as a result of empathy. It helps in both physical and psychological well-being. Empathizing with others helps to regulate a person's own emotions. It helps an individual to manage his feelings even at times of great stress.

Empathy helps a person to engage themselves in helpful behaviours. Not everyone experiences empathy. Some people may be more naturally empathetic than others. How a

person perceives another person can influence empathy to a great extent. Being empathetic towards others will help to understand other's suffering and create harmony in the world.

BECOMING A LEADER IN INDUSTRY:

By Ms. Sri Shreya S II Year B.Tech-IT

Being a leader can allow you to influence others and share your expertise. In the tech industry, there are many leaders who work to provide innovative solutions and expand the way people view problems. Understanding what leadership skills you possess and what valuable ones you can gain can help you establish yourself in the industry. In this article, I explain what it means to be a leader in the tech industry, share qualities these leaders have and provide eight steps to help you become one.

Being a leader in the tech industry means solving problems with innovative solutions or explaining new technology concepts in engaging ways. Typically, tech leaders initially emerge from the creation of new technology advancements. For example, a leader in the tech industry might analyze clean water access and try to create new technology to help individuals get the clean water they need. Then they might share their findings professionally through speaking events, the media or promotional campaigns.

Leaders may also encourage others to think innovatively and experiment until they find solutions to the problems they want to solve. This can include providing mentorship materials like professional development books about their experience of becoming a leader in technology. The primary criteria for being a leader in the tech industry is contributing knowledge. The adoption of RFID tags -- low-power chips that can communicate wirelessly -- solved some of this issue, along with the

increasing availability of broadband internet and cellular and wireless networking. The adoption of IPv6 -- which, among other things, should provide enough IP addresses for every device the world (or indeed this galaxy) is ever likely to need -- was also a necessary step for the IoT to scale.

How to become a leader in the tech industry?

If you want to become a leader in the tech industry, here are eight steps you can use to help you reach your career goal:

1. Network with tech leaders
2. Advocate for technology advancements
3. Create an organization
4. Promote your organization
5. Understand your long-term goals
6. Work with your community
7. Mentor your employees
8. Encourage innovation and experimental thinking

FRONT END WEB DEVELOPMENT:

By Salman A of 1st year B.Tech-IT

Front-end web development, also known as client-side development is the practice of producing HTML, CSS and JavaScript for a website or Web Application so that a user can see and interact with them directly. The challenge associated with front end development is that the tools and techniques

used to create the front end of a website change constantly and so the developer needs to constantly be aware of how the field is developing.

The objective of designing a site is to ensure that when the users open up the site they see then formation in a format that is easy to read and relevant. This is further complicated by the fact that users now use a large variety of devices with varying screen sizes and resolutions thus forcing the designer to take into consideration these aspects when designing the site.

They need to ensure that their site comes up correctly in different browsers (cross-browser), different operating systems (cross-platform) and different devices (cross-device), which requires careful planning on the side of the developer.

A front-end developer builds the front-end portion of websites and web applications—that is, the part that users actually see and interact with. A front-end developer creates websites and applications using web languages such as HTML, CSS, and JavaScript allow users to access and interact with the site or app.

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