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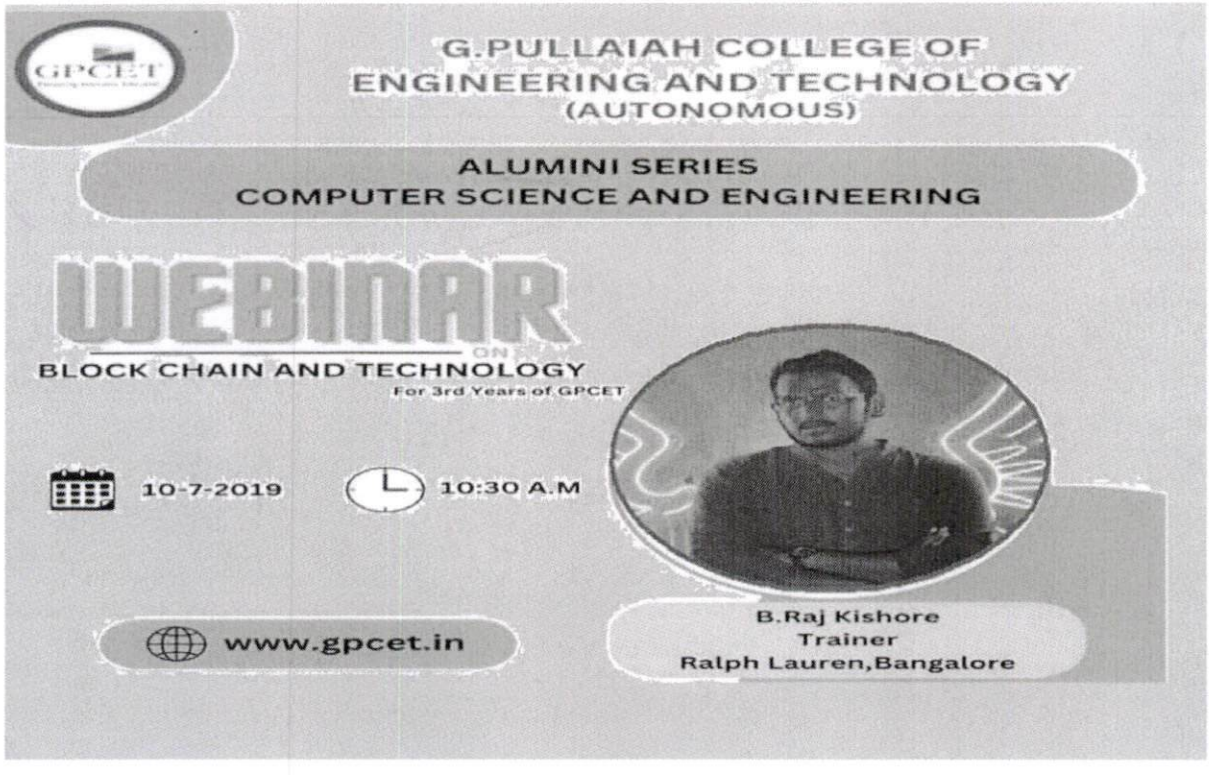
Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

ALUMNI TALK ON "BLOCKCHAIN TECHNOLOGY: CURRENT TRENDS AND FUTURE PROSPECTS"

Date: 16-07-2019

A dynamic alumni talk on "Block chain Technology:

Current Trends and Future Prospects" was organized by the Department of Computer Science and Engineering on 16th July 2019. The distinguished speaker for the event was Mr. Raj Kishore, Blockchain Solutions Architect at R AND L,Bangalore, who graciously shared his expertise and experiences in the field of block chain technology.



The seminar was attended by all third-year students, faculty members, and the Head of the Computer Science and Engineering Department. The primary focus of the talk was to explore the latest trends in block chain technology and its potential impact on various industries.

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Key Points Covered:

1. **Introduction to Block chain**: A comprehensive overview of the foundational concepts and principles of block chain technology.

2. **Applications Across Industries:** Exploring the diverse applications of blockchain in finance, healthcare, supply chain, and other sectors.

3. **Smart Contracts and Decentralized Finance (DeFi):** Insights into the evolution of smart contracts and the emerging landscape of decentralized finance.

4. **Blockchain Platforms and Frameworks:** An overview of popular blockchain platformsand frameworks, discussing their strengths and use cases.

5. **Use Cases and Case Studies:** Real-world examples and case studies showcasing successful implementations and innovative projects leveraging blockchain.

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Outcome:

Participants gained a comprehensive understanding of the current trends and future prospects of blockchain technology. Mr. Raj Kishore provided valuable insights into the applications, platforms, and frameworks shaping the blockchain landscape, fostering a deeper appreciation for the potential impact of blockchain across industries.

Conclusion:

The alumni talk on "Blockchain Technology: Current Trends and Future Prospects" served as a valuable platform for students and faculty to delve into the dynamic world of blockchain. By learning from an industry expert, attendees were equipped with the knowledge to comprehend the current trends and envision the future possibilities of this transformative technology. As blockchain continues to evolve, events like these play a crucial role in bridging the gap between academia and industry, preparing students for the challenges and opportunities in the realm of decentralized and distributed technologies.

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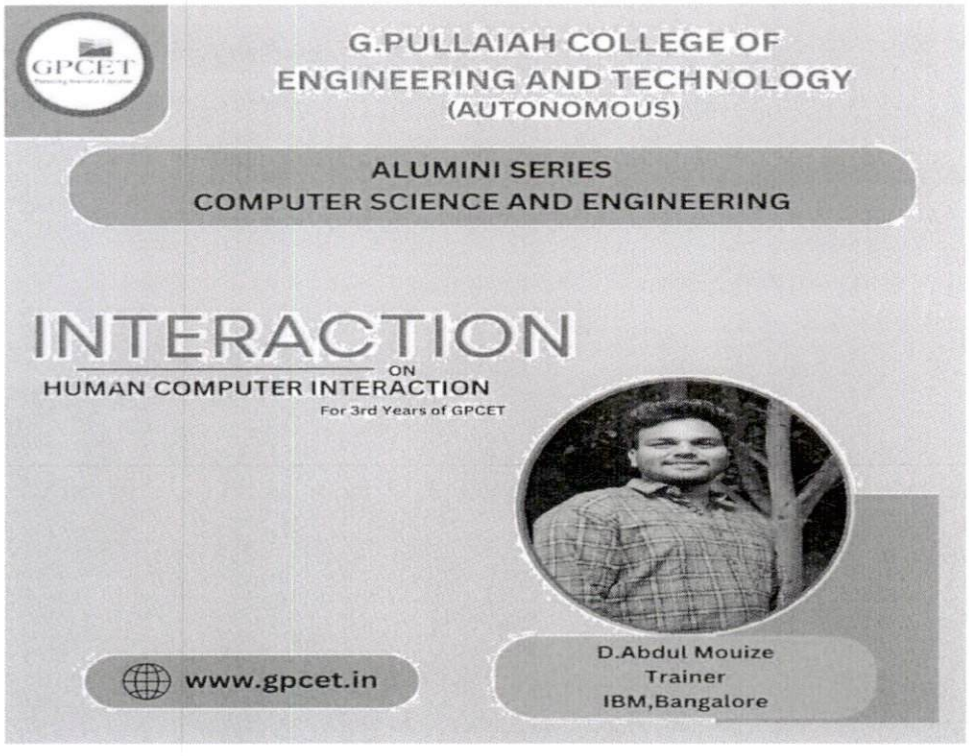
Event Title: Interactive Session on "Human-Computer Interaction"

Date: 10-01-2020



The Department of Computer Science and Engineering organized an insightful interactive session on "Human-Computer Interaction" on 10th January 2020. The session featured Mr. D.Abdul Mouize a distinguished alumnus and expert from IBM, Bangalore, specializing in Human-Computer Interaction (HCI) and user experience design.

Key Highlights:

1. **Understanding Human-Computer Interaction (HCI):** Mr. D. Abdul Mouize provided a comprehensive overview of HCI, emphasizing the importance of designing technology that enhances the user experience.

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2. **Principles of User Experience Design:** Insights were shared into the fundamental principles of user experience design, including usability, accessibility, and user-centered design.

3. **Applications in Computer Science:** The session explored diverse applications of HCI within the computer science field, showcasing its significance in developing interactive and user- friendly software.

4. **Real-world Implementations:** Case studies highlighted successful HCI implementations, offering practical insights into designing interfaces that meet user needs and preferences.

5. **Integration with Emerging Technologies:** The discussion delved into how HCI integrates with emerging technologies, illustrating its role in shaping the future of interactive computing.

6. **Challenges and Future Trends:** Mr. D. Abdul Mouize addressed challenges and shared insights into future trends in HCI, providing valuable guidance to the next generation of computer science professionals.

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Interactive Alumni Q&A Session:

The session featured an engaging Q&A segment, allowing computer science students to directly interact with Mr. D. Abdul Mouize. This provided a unique opportunity for attendees to seek clarifications, discuss practical applications, and gain valuable insights into the intricacies of Human-Computer Interaction.

Outcome:

This interactive session, a part of the ongoing Alumni Series, facilitated a dynamic exchange of knowledge between an esteemed alumnus, Mr. D. Abdul Mouize, and current students. The session empowered computer science students with practical insights and a deeper appreciation of Human-Computer Interaction in their academic and professional journey.

Conclusion:

The ongoing Alumni Series, exemplified by the interactive session on "Human-Computer Interaction" with Mr. D. Abdul Mouize, played a pivotal role in connecting current students with successful alumni. Such interactive sessions contribute significantly to bridging the gap between academic learning and industry practices, fostering the holistic development of students in the rapidly evolving field of computer science and technology.

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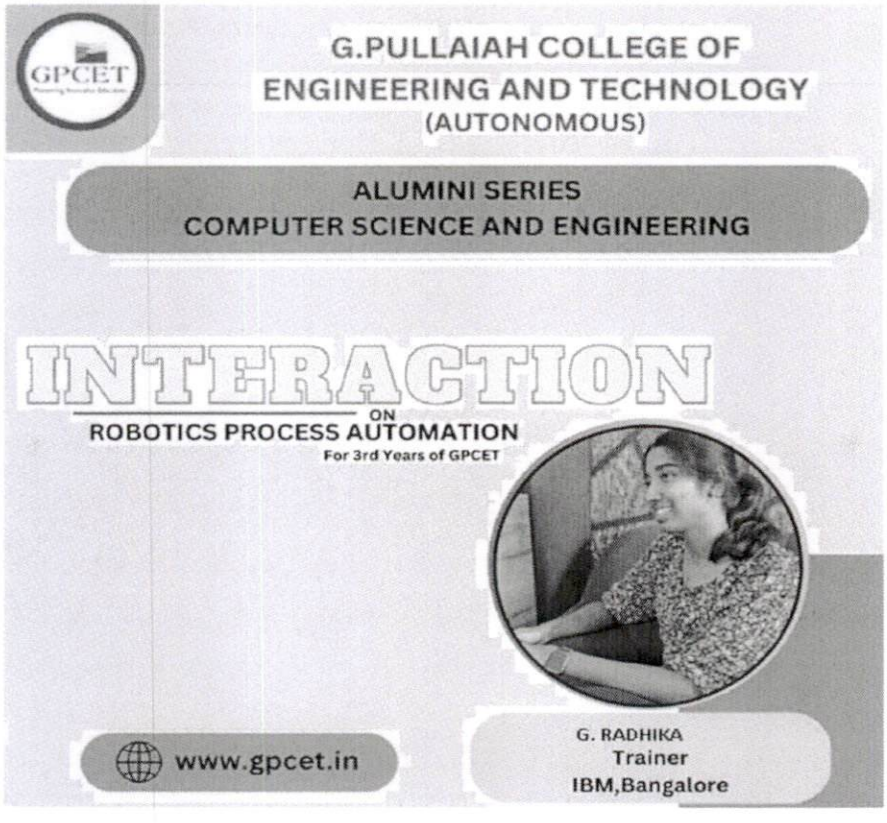
Date:16-08-2019

Event Title: Interactive Session on **"Robotics Process Automation (RPA)"**

The Department of Computer Science and Engineering organized an engaging interactive session as part of the Alumni Series on 16th August 2019. This session featured Ms.G.Radhika, a distinguished alumnus and renowned expert from IBM, Bangalore, specializing in Robotics Process Automation (RPA) technologies.



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Key Highlights:

1. **Overview of RPA:** Ms.G.Radhika provided a comprehensive overview of RPA fundamentals, emphasizing its applications within the computer science domain.

2. **RPA Tools and Technologies:** Insights were shared into various RPA tools and technologies, with a particular focus on IBM's contributions, showcasing the advancements alumni are making in the industry.

3. **Applications in Computer Science:** The discussion explored diverse RPA applications within the computer science field, illustrating its relevance in software development, data processing, and other specific tasks.

4. **Real-world Implementations:** Case studies highlighted successful RPA implementations within computer science scenarios, offering practical insights for current students.

5. **Integration with AI and ML:** The session delved into the integration of RPA with Artificial Intelligence (AI) and Machine Learning (ML), showcasing the intersection of cutting-edge technologies.

6. **Challenges and Future Trends:** Ms.G.Radhika addressed challenges and shared insights into future trends in RPA, providing valuable guidance to the next generation of computer science professionals.

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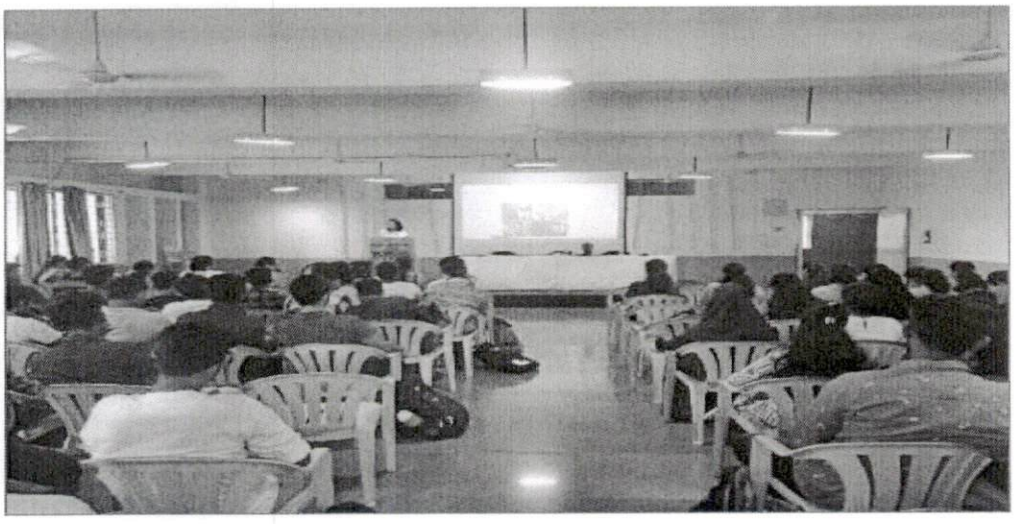
Interactive Alumni Q&A Session:



The event featured an engaging Q&A segment, allowing computer science students to directly interact with : Ms.G.Radhika. This provided a unique opportunity for attendees to seek clarifications, discuss practical applications, and gain valuable insights into the intricacies of RPA technologies within the field of computer science.

Outcome:

This interactive session, a part of the Alumni Series, facilitated a dynamic exchange of knowledge between an esteemed alumnus and current students. The event empowered computer science students with practical insights and a deeper appreciation of RPA's relevance in their academic and professional journey.

Conclusion:

The Alumni Series, exemplified by the interactive session with : Ms.G.Radhika on"Robotics Process Automation," played a pivotal role in connecting current students with successful alumni. Such interactions are instrumental in bridging the gap between academic learning and industry practices, contributing to the holistic development of students in the rapidly evolving field of automation technologies.

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Alumni Series:

Event Title: Webinar on **" Big Data and DS"**

Dt:13-12-2019

The Department of Computer Science and Engineering organized an enlightening webinar on "Big Data and Data Structures" on 13th December 2019. The webinar featured Mr. D. Akash Yadav, a distinguished alumnus and seasoned trainer from Tech Mahindra, Chennai, specializing in big data technologies and data structures.

1. **Understanding Big Data:** Mr. D. Akash Yadav provided a comprehensive overview of big data, elucidating its significance and applications in modern computing.

2. **Data Structures in Depth:** Insights were shared into various data structures,

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algorithms, and their practical implementations, emphasizing their crucial role in efficient software development.

3. **Applications in Computer Science:** The webinar explored diverse applications of big data and data structures within the computer science field, showcasing their importancein handling and processing large volumes of information.

4. **Real-world Implementations:** Case studies highlighted successful implementations of bigdata solutions and data structures, offering practical insights for current students.

5. **Integration with Emerging Technologies:** The session delved into how big data and data structures integrate with emerging technologies, illustrating their role in solving complex computational problems.

6. **Challenges and Future Trends:** Mr. D. Akash Yadav addressed challenges and shared insights into future trends in big data and data structures, providing valuable guidance to the next generation of computer science professionals.

Interactive Webinar Q&A Session:

The webinar featured an engaging Q&A segment, allowing computer science students to directly interact with Mr. D. Akash Yadav. This provided a unique opportunity for attendees to seek clarifications, discuss practical applications, and gain valuable insights into the intricacies of big data and data structures.

OutCome:

This interactive webinar, a part of the ongoing series, facilitated a dynamic exchange of knowledge between an esteemed alumnus, Mr. D. Akash Yadav, and current students. The webinar empowered computer science students with practical insights and a deeper appreciation of big data and data structures in their academic and professional journey.

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Conclusion:

The ongoing Alumni Series, exemplified by the webinar on "Big Data and Data Structures" with Mr. D. Akash Yadav, played a crucial role in connecting current students with successful alumni. Such interactive sessions contribute significantly to bridging the gap between academic learning and industry practices, fostering the holistic development of students in the rapidly evolving field of computer science and technology.

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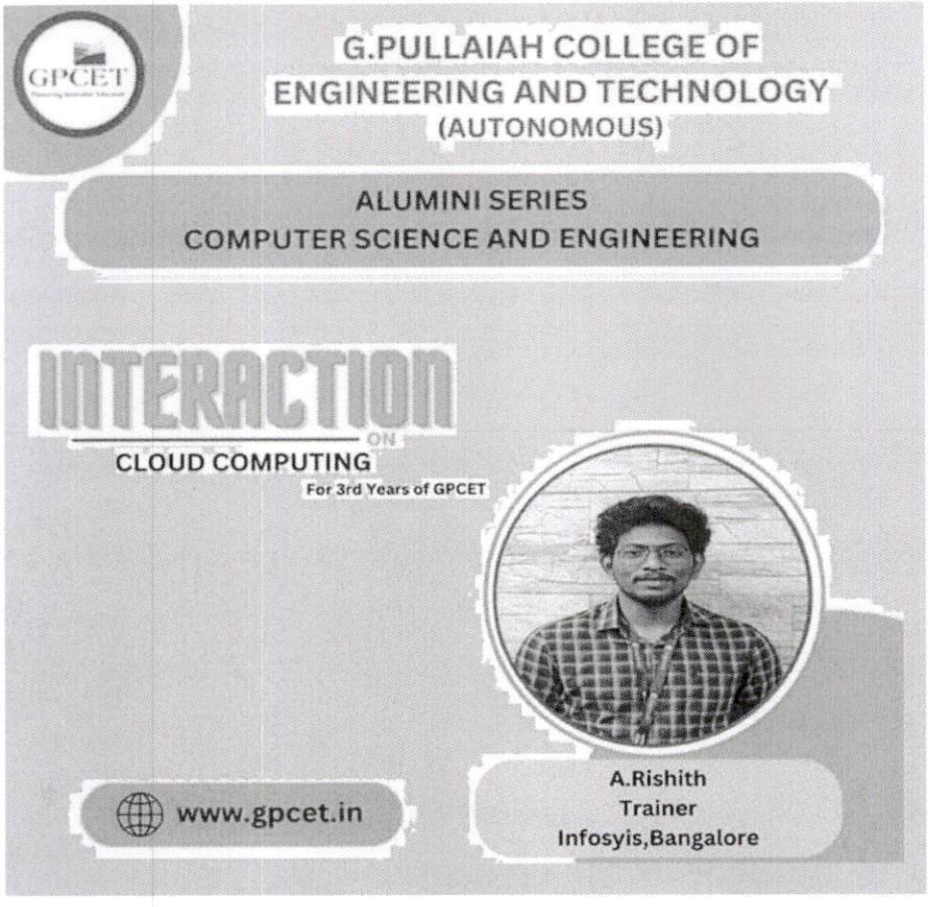
Alumni Series:

Event Title: "*Interactive Session on "Cloud Computing in Modern IT Landscape"*

Date:21-08-2020



The Department of Computer Science and Engineering organized an insightful interactive session as part of the Alumni Series on 21st August 2020. This session featured Mr. A.Rishith, a distinguished alumnus and accomplished cloud computing trainer at Infosys, Bangalore, specializing in cloud technologies and their applications in the modern IT landscape.

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Key Highlights:

Overview of Cloud Computing: Mr. A. Rishith provided a comprehensive overview of cloud computing fundamentals, emphasizing its significance in the current IT landscape.

1. **Cloud Technologies and Platforms:** Insights were shared into various cloud technologies and platforms, with a particular focus on the advancements in cloud computing witnessed in the industry.

2. **Applications in Computer Science:** The discussion explored diverse applications of cloud computing within the computer science field, illustrating its role in software development, data management, and other specific tasks.

3. **Real-world Implementations:** Case studies highlighted successful cloud computing implementations within computer science scenarios, offering practical insights for current students.

4. **Integration with Emerging Technologies**: The session delved into how cloud computing integrates with emerging technologies, showcasing its role in the ever- evolving ITl and scape.

5. **Challenges and Future Trends:** Mr. A. Rishith addressed challenges and shared insights into future trends in cloud computing, providing valuable guidance to the next generation of computer science professionals.

Interactive Alumni Q&A Session:

The event featured an engaging Q&A segment, allowing computer science students to directly interact with Mr. A. Rishith. This provided a unique opportunity for attendees to seek clarifications, discuss practical applications, and gain valuable insights into the intricacies of cloud computing within the field of computer science.

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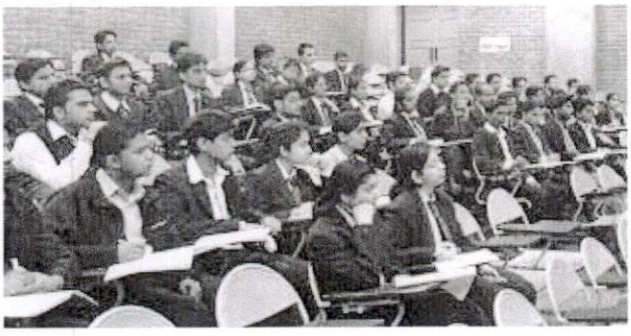

Outcome:

This interactive session, a part of the Alumni Series, facilitated a dynamic exchange of knowledge between an esteemed alumnus, Mr. A. Rishith, and current students. The event empowered computer science students with practical insights and a deeper appreciation of cloud computing's relevance in their academic and professional journey.

The Alumni Series, exemplified by the interactive session with Mr. A. Rishith on "Cloud Computing in Modern IT Landscape," played a pivotal role in connecting current students with successful alumni. Such interactions are instrumental in bridging the gap between academic learning and industry practices, contributing to the holistic development of students in the rapidly evolving field of IT technologies.

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Dt:22-07-2020

ALUMNI TALK ON *"ADVANCING CONNECTIVITY: INSIGHTS INTO 5G TECHNOLOGIES"*

A comprehensive alumni talk on "Advancing Connectivity: Insights into 5G Technologies" was organized by the Department of Computer Science And Engineering on 22nd July 2020. The distinguished speaker for the event was Ms. A.Anusha, a 5G Technologies Trainer at Accenture, Bangalore, who generously shared her expertise and experiences in the dynamic field of 5G technologies.

The seminar was attended by all final-year students, faculty members, and the Head

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of the Electronics and Communication Engineering Department. The primary focus of the talk was to explore the latest advancements in 5G technologies and their transformative impact on the telecommunications industry.

Key Points Covered:

1. **Introduction to 5G Technologies:** A comprehensive overview of the fundamental concepts and principles of 5G technology, including enhanced data rates, low latency, and massive device connectivity.

2. **Key Features of 5G:** Exploring the key features such as millimeter-wave spectrum, massive MIMO, and network slicing that distinguish 5G from its preccedors.

3. **Applications and Use Cases:** Insights into the diverse applications of 5G in various industries, including healthcare, smart cities, autonomous vehicles, and the Internet of Things (IoT).

4. **Network Architecture:** Understanding the architecture of 5G networks, including the core network, radio access network, and the integration of cloud-native technologies.

5. **Challenges and Opportunities:** Discussing the challenges faced in implementing 5G technologies and the opportunities it presents for innovation and business growth.

Outcome:

Participants gained valuable insights into the cutting-edge advancements in 5G technologies. Mr. Ajay Kumar provided practical knowledge on the features, applications, and challenges associated with 5G, fostering a comprehensive understanding of the current state and future potential of this transformative technology.

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Conclusion:

The alumni talk on "Advancing Connectivity: Insights into 5G Technologies" served as a valuable platform for students and faculty to delve into the forefront of telecommunications. By learning from an industry expert, attendees were equipped with the knowledge to appreciatethe current trends and envision the future possibilities of 5G technologies. Such events play a pivotal role in connecting academia with industry insights, preparing students for the challenges and opportunities in the ever-evolving world of communication technologies.

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ALUMNI WEBINARS – 2019-20

A webinar was conducted for all the BTech students under Alumni Talk Series by the Department of ECE on **"3D Printing Applications"** by Alumni Mr.**S.N.V.Ranga Reddy**, **Engineer, TATA Elxsi** on 04th October 2019 through Teams Platform.

The webinar was all about the Skill Set required for getting Job Opportunities in Finance Sector. Particularly, highlighted the functional skills required in Finance Sector and also Career Opportunities in that domain. Initially, Mr**SNV Ranga Reddy**has given brief on technical skills in Finance Sector and its use in the present scenario.

Further, he said like companies in the Core Electronics, Biomedical, Construction sector are always on the lookout for skilled professionals. In fact, India is facing a shortage of skilled professionals. He opined that in the 3DPrintingsector candidates are recruited basic skills such as Analytical Thinking, Intelligence, Design Modeling, Mechanical Moulds and Medical, Space etc.

At the end of the webinar, an interactive Questions & Answers session was organized in which the resource person addressed to the questions of the students about the webinar. Most of the questions were about how to equip those skills, list of top MNCs working on these domains, future of sector and salary structure in the domain etc.

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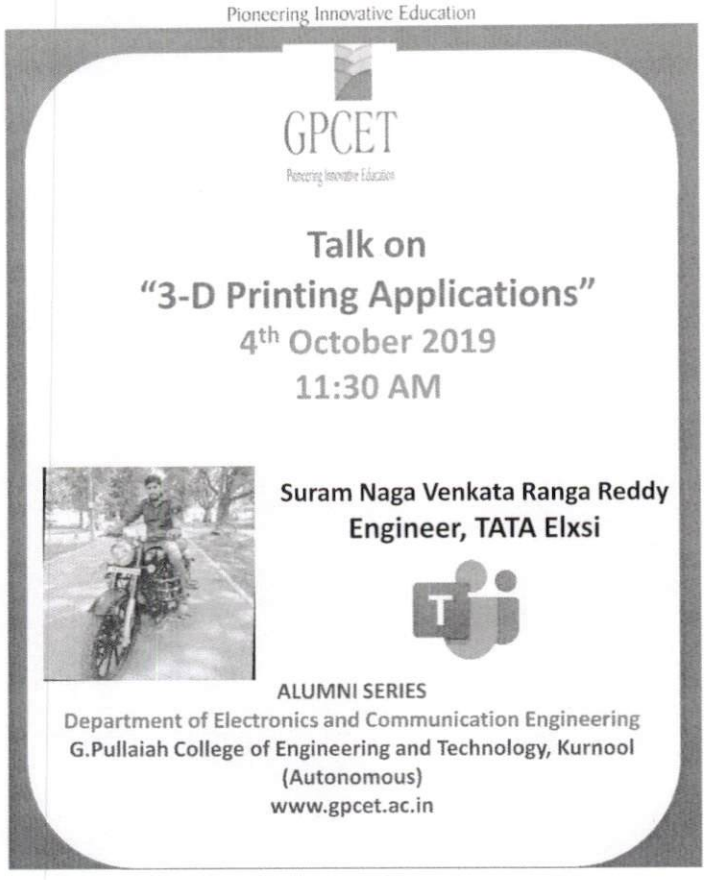

A webinar was conducted for all the B.Tech students under Alumni Talk Series by the Department of ECE a session namely **" Computing Technologies"** by Alumni **Mr.P. Pavan, HCL, America** on 03rd August 2019 through Google Meet Platform.

The webinar was all about the Career Opportunities in Amazon and Skills required for getting Job Opportunities in **Computing Technologies**. Particularly, highlighted the technical skills required in to work in Software IT roles. Initially, **Mr.P. Pavan** has given brief on HCL Technologies and its use in the present scenario.

Further, he said like companies in the **Computing Technologies** are always on the lookout for skilled professionals. In fact, India is facing a shortage of skilled professionals.He opined that in the **Computing Technologies** candidates are recruited skills such as;advanced excel and SQL operating skills, goodcommunication and presentation skills, strongdocumentation and analytical skills, ability to engage and interact independently with client personnel, work in result-oriented team environment, work in a multi-time zone environment and travel to other offices if required etc.

At the end of the webinar, an interactive Questions & Answers session was organized in which the resource person answered to the questions of the students. Most of the questions were about how to equip those skills, how to get job in HCL, future of sector and salary structure in the domain etc.

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A webinar was conducted for all the BTech students under Alumni Talk Series by the Department of ECE a session namely; **"Embedded System Design"** by Alumni **Mr.G. Rahul Satish**, **Cognizant, Pune** on 11-12 October 2019 through Teams Platform.

The webinar was all about the Career Opportunities in **Embedded System Design**and Skills required for getting Job Opportunities in this sector. Particularly, highlighted the technical skills required in to work in **Embedded System Design**. Initially, **Mr.G.Rahul Satish** has given an overview on Indian Core Embedded Systems sector.

Further, he said like companies in **Embedded System Design**sector are always on the lookout for skilled professionals. In fact, India is facing a shortage of skilled professionals.He opined that Indian**Embedded System Design**hopes to create millions of job opportunities by 2025 and our government is also taking various initiatives to improve the structure and promote **Embedded System Design industries** efficiently. To have career in this sector candidate should acquire skills like; good communication, Analytical, teamwork, Core knowledge of Thinking skills and adoptable to work in a multi-time zone environment etc.

At the end of the webinar, an interactive Questions & Answers session was organized in which the resource person answered to the questions of the students. Most of the questions were about how to equip those skills, list of top MNCs working on these domains, future of sector and salary structure in the domain etc.

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A webinar was conducted for all the B.Tech students under Alumni Talk Series by the Department of Electronics & Communication Engineering on **"Telecommunications and its Applications"** by Alumni **Ms.M.Reshma Reddy**, **Quotient Technology, Bangalore** on 01^{t} January 2020 through Teams Platform.

The webinar was all about sharing the ongoing trends in **Telecommunications and its Applications**and particularly, lightened in Niche Technologies in **Telecommunications and its Applications**and Career Opportunities in that domain. Initially, **Ms.M.Reshma Reddy** has given brief on Niche Technologies in **Telecommunications** Industry and its use in the present scenario.

Further, she said like Niche skill means a specific area in which you have to have more knowledge (or) experience. She opined that in the **Telecommunications** industry candidates are recruited based on their niche skills such as Wireless Communications, Networking, Fiber Technology, Connecting, Data Security, Base Station, and Channelsetc.

At the end of the webinar, an interactive Questions & Answers session was organized in which the resource person addressed to the questions of the students about the webinar. Most of the questions were about how to equip those skills, list of top MNCs working on these technologies, future of technologies and salary structure in the domain etc.

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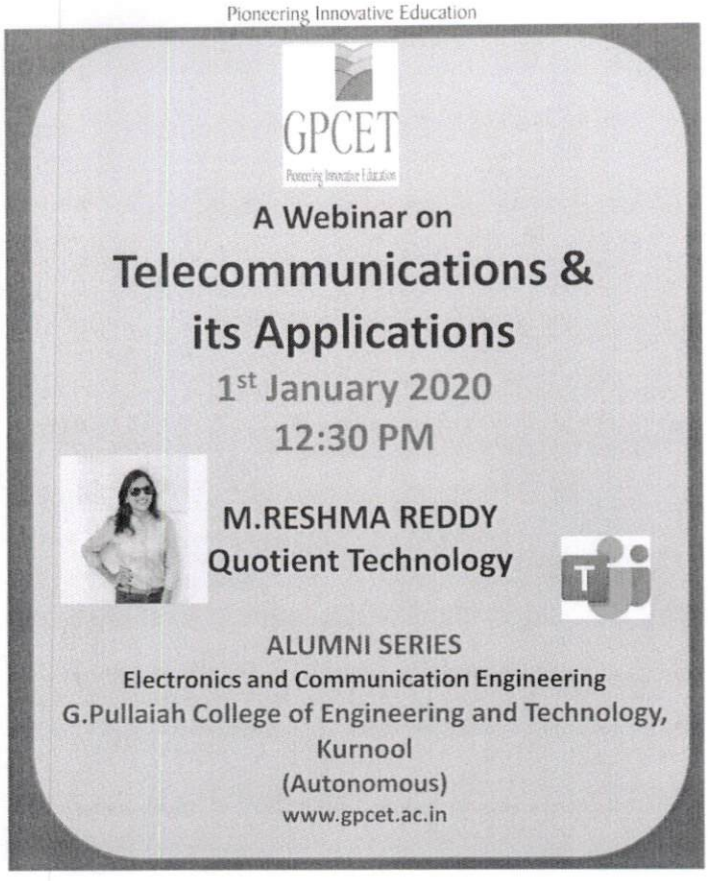

A webinar was conducted for all the B.Tech students under Alumni Talk Series by the Department of Electronics & Communication Engineering on **"NI LabView Technologies at Workplaces"** by Alumni **Mr.Ravi Tejeswara Rao, Agile Engine, Chennai** on 06-07 April2020 through Google Meet.

The webinar was all about sharing the ongoing trends in IT industry and particularly, lightened in Advanced Technologies in **NI LabView Technologies at Workplaces** and Career Opportunities in that domain. Initially, **Mr.Ravi Tejeswara Rao** has given brief on Advanced Technologies in **NI LabView Technologies at Workplaces** and its use in the present scenario.

Further, he said like expertise skill means a specific area in which you have to have more knowledge (or) experience. He opined that in the **NI LabView Technologies at Workplaces** candidates are recruited based on their niche skills such as expertise in Siulation Intelligence and Designing, Compilation,Computing, Virtual Reality and Augmented Reality, Block Chain, Internet of Things (IOT), 5G, Cyber Security, etc.

At the end of the webinar, an interactive Questions & Answers session was organized in which the resource person addressed to the questions of the students about the webinar.

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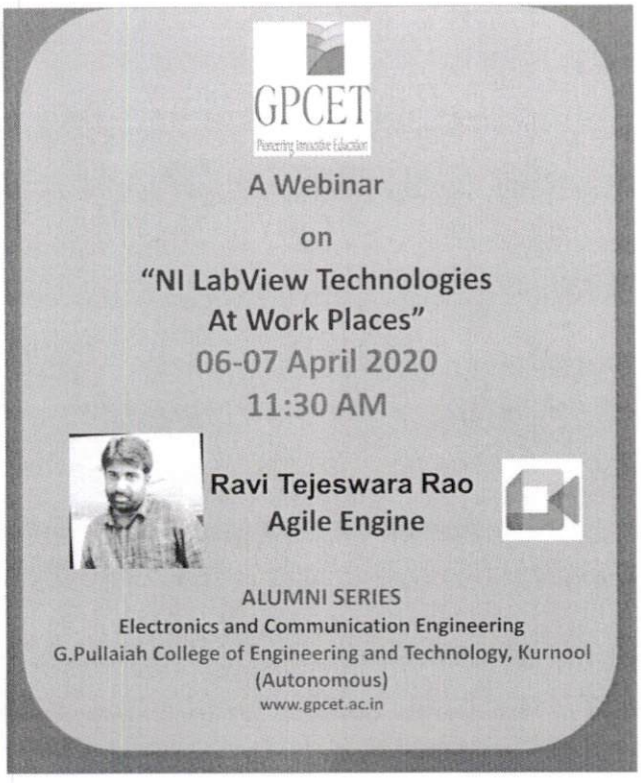
Most of the questions were about how to equip those skills, list of top MNCs working on these technologies, future of technologies and salary structure in the domain etc.



A webinar was conducted for all the B.Tech students under Alumni Talk Series by the Department of Electronics & Communication Engineering on **"MEMS Design"** by Alumni **Ms.T.Prathyusha,Design Analyst, TCS, Bangalore** on 09th May2020 through Microsoft Teams.

The webinar was all about sharing the ongoing trends in **MEMS Design** Industry and particularly, lightened in Cutting Edge Technologies in **MEMS Design** Industry and Career Opportunities in that domain. Initially, **Ms.T.Prathyusha** has given brief on Cutting Edge Technologies in IT Industry and its use in the present scenario.

Further, she said like expertise skill means a specific area in which you have to have more knowledge (or) experience. She opined that in the **MEMS Design** industry candidates are recruited based on their niche skills such as expertise in Design, Core knowledge on VLSI, DLD and other3D Multi-Sensor Transmitters, Robotics, IOT, 5G And Edge Computing, At-Home Digital Diagnostics, Conversational AI, Augmented Reality etc.

At the end of the webinar, an interactive Questions & Answers session was organized in which the resource person addressed to the questions of the students about the webinar.

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Most of the questions were about how to equip those skills, list of top MNCs working on these technologies, future of technologies and salary structure in the domain etc.

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Talk on
"MEMS Design"
9th May 2020
10:00 AM

T.PRATHYUSHA
TCS Design Analyst

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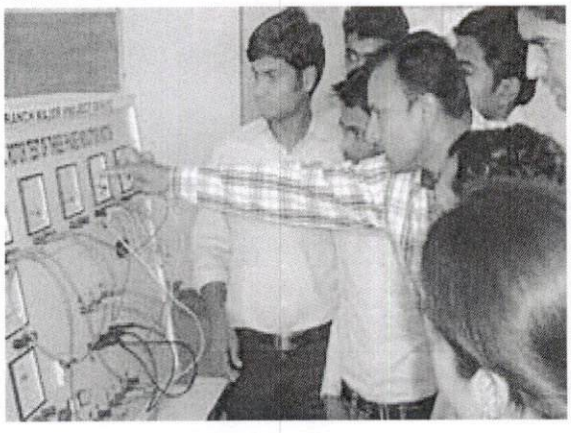
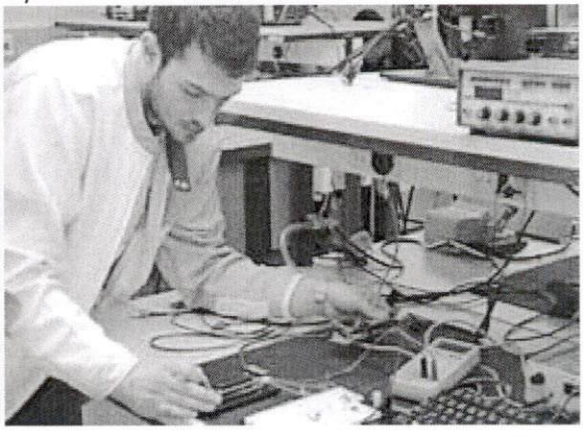
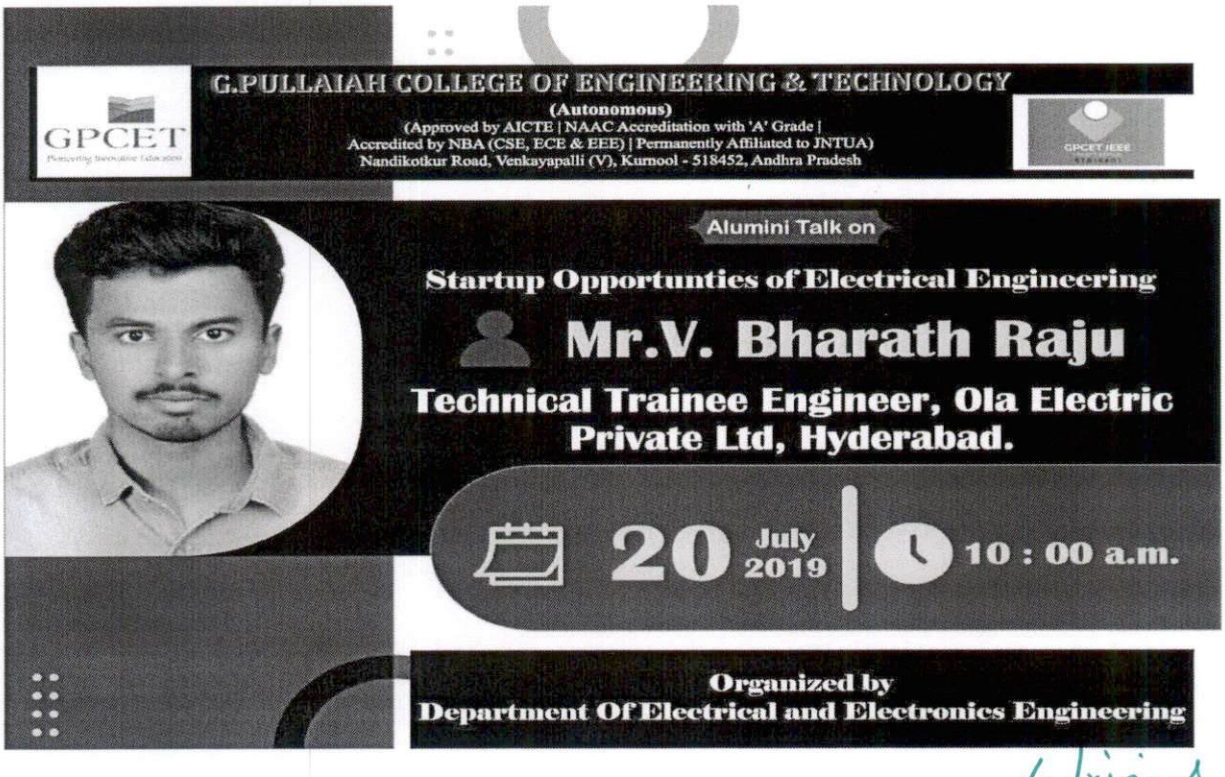
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

REPORT ON STARTUP OPPORTUNTIES OF ELECTRICAL ENGINEERING

Department of EEE, G.Pullaiah College of Engineering and Technology is organising in association with Mr.V.Bharath Raju a one day webinar on " STARTUP OPPORTUNTIES OF ELECTRICAL ENGINEERING" on 20/07/2019 Mr.V.Bharath Raju is the Technical Trainee Engineer,Ola Electric Private Ltd,Hyderabad. A total of 110 students attended in this session from II year 1ST sem B.Tech 2019.







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There are numerous startup opportunities in the field of electrical engineering, driven by technological advancements, market demand, and emerging trends. Here are some potential startup ideas within this domain:

1.**Renewable Energy Solutions**: Develop innovative technologies and solutions for renewable energy generation, such as solar panels, wind turbines, or energy storage systems. This could involve improving efficiency, reducing costs, or enhancing integration with existing infrastructure.

2.**Smart Grid Technologies**: Create solutions to modernize and optimize electrical grids, such as smart meters, grid monitoring systems, or demand response platforms. These technologies aim to improve efficiency, reliability, and sustainability in energy distribution.

3. **Electric Vehicle Infrastructure**: With the growing popularity of electric vehicles (EVs), there is a demand for infrastructure development, including charging stations, battery swapping solutions, and software platforms for EV management and integration with the grid.

4. **Energy Efficiency Solutions**: Develop products or services to help businesses and consumers reduce energy consumption and improve efficiency. This could include smart home automation systems, energy-efficient appliances, or building management software.

5. **Electrification of Transportation**: Explore opportunities in electric aviation, electric boats, or electric drones. Develop innovative technologies to improve the performance, range, and safety of electric propulsion systems for various transportation modes.

6. **IoT-enabled Devices**: Design and manufacture IoT-enabled devices for monitoring and controlling electrical systems, such as smart sensors, connected switches, or predictive maintenance solutions. These devices can help optimize energy usage and improve operational efficiency.

7. **Advanced Power Electronics**: Develop high-performance power electronics components and systems for applications such as renewable energy inverters, electric vehicle powertrains, or grid-tied energy storage systems. Focus on improving efficiency, reliability, and power density.

8. **Energy Harvesting Technologies**: Explore opportunities in energy harvesting technologies that capture and convert ambient energy sources into usable electrical power. This could include solar-powered IoT devices, kinetic energy harvesters, or thermoelectric generators.

9.**Electrical Safety and Compliance Solutions**: Offer services or software solutions to ensure compliance with electrical safety standards and regulations. This could involve testing and certification services, compliance management software, or training programs for electrical professionals.

10. **Electronics Recycling and Sustainability**: Develop innovative solutions for recycling and repurposing electronic waste (e-waste) to reduce environmental impact and promote

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sustainability. This could include recycling technologies, reverse logistics services, or eco-friendly materials.These are just a few examples of startup opportunities in the field of electrical engineering. Entrepreneurs in this domain should stay informed about industry trends, technological advancements, and market demands to identify new and promising opportunities for innovation and growth.

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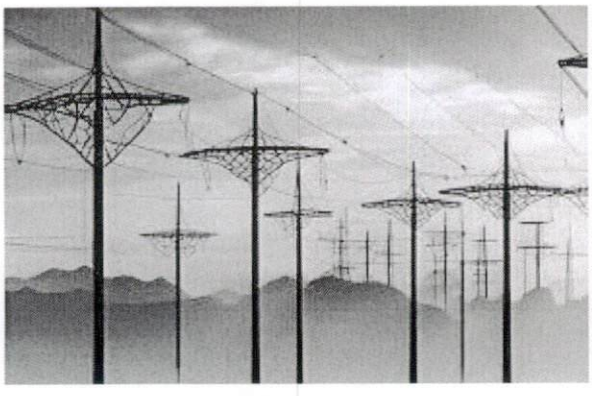
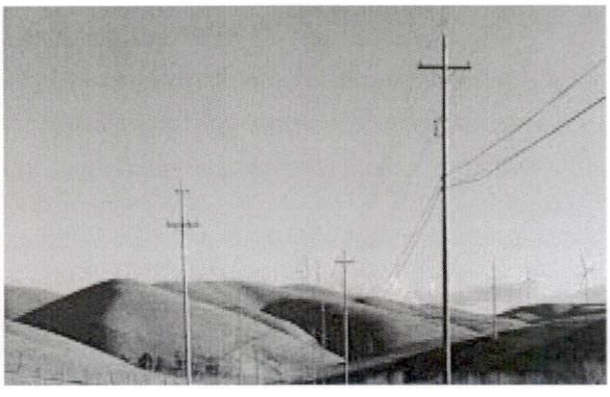
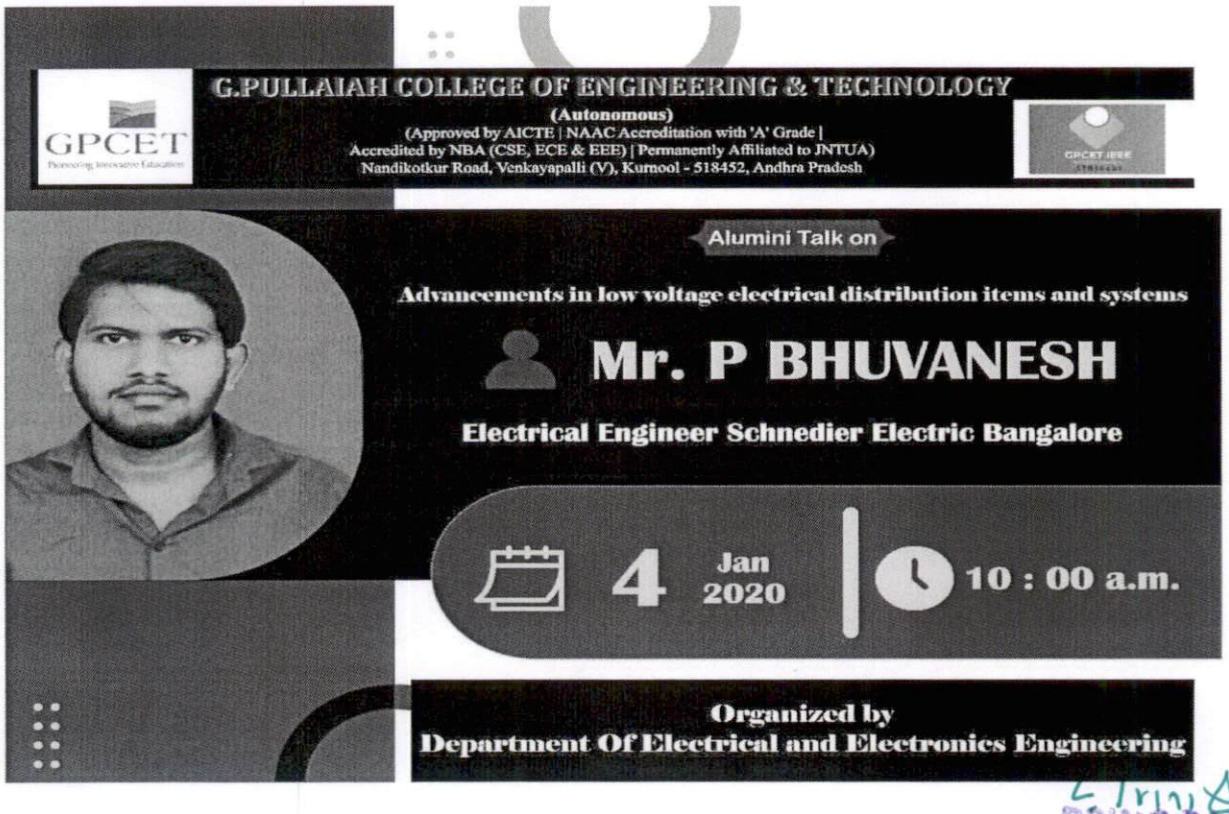
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

REPORT ON ADVANCEMENTS IN LOW VOLTAGE ELECTRICAL DISTRIBUTION ITEMS AND SYSTEMS

Department of EEE, G.Pullaiah College of Engineering and Technology is organising in association with Mr.P.Bhuvanesh a one day webinar on "ADVANCEMENTS IN LOW VOLTAGE ELECTRICAL DISTRIBUTION ITEMS AND SYSTEMS" on 04/01/2020. Mr.P.Bhuvanesh is the Electrical Engineer Schnedier Electric,Banglore . A total of 110 students attended in this session from II B.Tech.







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Advancements in low-voltage electrical distribution items and systems have been driven by the need for increased efficiency, reliability, safety, and integration with modern technologies. Here are some notable advancements:

1. Smart Metering and Monitoring: Smart meters enable real-time monitoring of electricity consumption at the user level, allowing for more accurate billing, load management, and energy efficiency initiatives. Advanced smart meters can communicate bidirectionally, providing consumers with insights into their energy usage patterns.

2. Microgrids and Distributed Energy Resources (DERs): Microgrids are local energy grids that can operate independently or in conjunction with the main electrical grid. They incorporate DERs such as solar panels, wind turbines, and battery storage to enhance reliability, resilience, and renewable energy integration at the community or building level.

3. Energy Storage Solutions: Advances in battery technology have led to the development of more efficient and cost-effective energy storage solutions. Battery storage systems can store excess energy during low-demand periods and discharge it during peak demand, helping to balance the grid and improve overall system stability.

4. Digitalization and Automation: Digital technologies, such as Internet of Things (IoT) sensors, cloud computing, and artificial intelligence (AI), are being increasingly integrated into low-voltage electrical distribution systems. These technologies enable predictive maintenance, remote monitoring, and automated control of electrical assets, leading to improved reliability and operational efficiency.

5. Advanced Switchgear and Protection Devices: Modern switchgear and protection devices offer enhanced performance, reliability, and safety features. They incorporate intelligent monitoring and diagnostics capabilities to detect and respond to abnormal operating conditions, minimizing the risk of equipment failure and electrical accidents.

6. Grid Modernization Initiatives: Utilities and grid operators are investing in grid modernization initiatives to upgrade aging infrastructure and improve system resilience. This includes the deployment of advanced sensors, communication networks, and control systems to optimize grid operations, reduce outage durations, and accommodate the integration of renewable energy resources.

7. Electrification of Transportation: The growing adoption of electric vehicles (EVs) is driving demand for infrastructure upgrades to support EV charging stations and grid integration. Low-voltage electrical distribution systems need to be upgraded to accommodate increased load demand from EV charging while maintaining grid stability and reliability.

8. Demand Response and Energy Management Systems: Demand response programs and energy management systems enable utilities and consumers to adjust electricity consumption in response to supply constraints or price signals. Advanced software platforms facilitate automated demand response, load forecasting, and optimization of energy resources in low-voltage distribution networks.

9. Resilience and Grid Flexibility: Climate change and extreme weather events are increasing the frequency and severity of power outages. To enhance grid resilience, low-voltage distribution systems are being designed with redundancy, grid automation, and islanding capabilities to minimize the impact of disruptions and ensure continuity of service.

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10. Standardization and Interoperability: Efforts are underway to develop industry standards and protocols for interoperability and compatibility among different electrical devices and systems. Standardized communication interfaces and data formats enable seamless integration of diverse technologies and facilitate the deployment of smart grid solutions.These advancements in low-voltage electrical distribution items and systems are transforming the way electricity is generated, distributed, and consumed, paving the way for a more efficient, reliable, and sustainable energy future.

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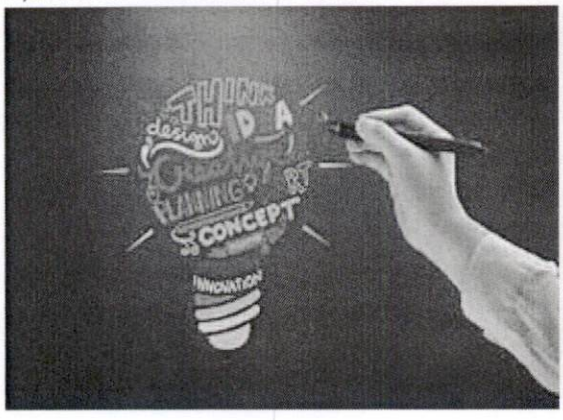
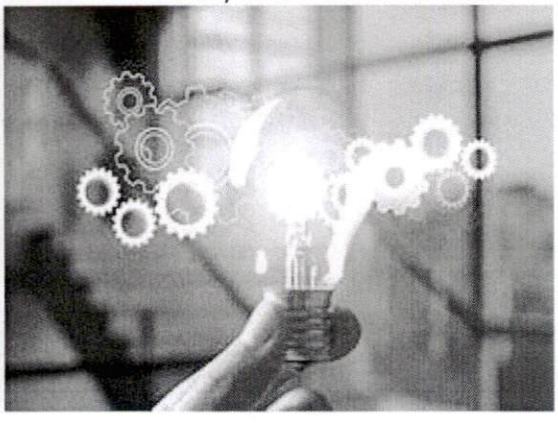
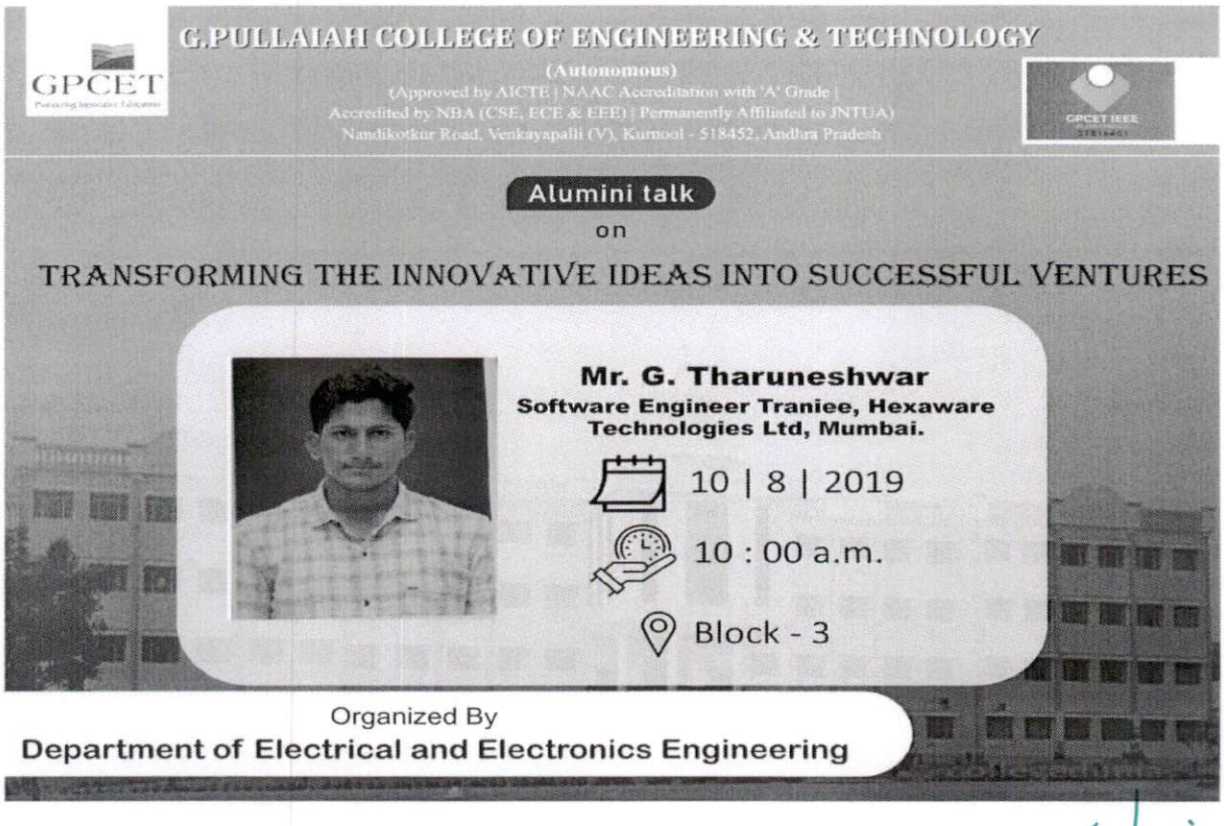
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

REPORT ON TRANSFORMING THE INNOVATIVE IDEAS INTO SUCCESSFUL VENTURES

Department of EEE, G.Pullaiah College of Engineering and Technology is organising in association with Mr.G. Tharuneswar a one day webinar on "TRANSFORMING THE INNOVATIVE IDEAS INTO SUCCESSFUL VENTURES" on 10/08/2019. Mr.G. Tharuneswar is theSoftware Engineer Trainee,Hexaware Technologies LTD,Mumbai. A total of 120 students attended in this session from III year 1ST sem B.Tech 2019.







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Transforming innovative ideas into successful ventures involves several key steps and considerations:

1. **Validate the Idea**: Before investing significant resources, it's crucial to validate the viability of the idea. This could involve market research, customer surveys, or creating prototypes to gather feedback.

2.**Create a Solid Business Plan:** Develop a comprehensive business plan outlining your value proposition, target market, revenue model, marketing strategy, and financial projections. This will serve as a roadmap for your venture and help secure funding if needed.

3. **Build a Strong Team**: Surround yourself with talented individuals who bring diverse skills and perspectives to the table. A cohesive team with complementary strengths is essential for overcoming challenges and driving growth.

4**. Secure Funding**: Depending on the nature of your venture, you may need funding to support product development, marketing efforts, and operational expenses. Explore various funding options such as bootstrapping, angel investors, venture capital, or crowdfunding.

5.**Focus on Execution**: Ideas alone are not enough; successful ventures require effective execution. Set clear goals, establish priorities, and execute your plans diligently while remaining adaptable to market feedback and changing circumstances.

6.**Invest in Innovation and R&D**: Continuous innovation is essential for staying ahead of the competition and meeting evolving customer needs. Allocate resources to research and development initiatives to improve existing products or develop new offerings.

7.**Build a Strong Brand**: Invest in branding efforts to differentiate your venture from competitors and create a memorable impression on customers. Cultivate a strong brand identity that reflects your values, mission, and unique selling proposition.

8.**Embrace Technology**: Leverage technology to streamline operations, enhance customer experiences, and scale your venture efficiently. Stay abreast of emerging technologies and trends relevant to your industry to maintain a competitive edge.

9.**Focus on Customer Satisfaction**: Prioritize customer satisfaction and cultivate strong relationships with your target audience. Listen to customer feedback, address their needs and concerns promptly, and continuously strive to exceed their expectations.

10**. Monitor Performance and Iterate**: Regularly monitor key performance indicators (KPIs) to assess the success of your venture and identify areas for improvement. Be willing to iterate on your strategies and pivot if necessary to adapt to changing market conditions.By following these steps and remaining agile and innovative, you can increase the likelihood of transforming your innovative ideas into successful ventures.

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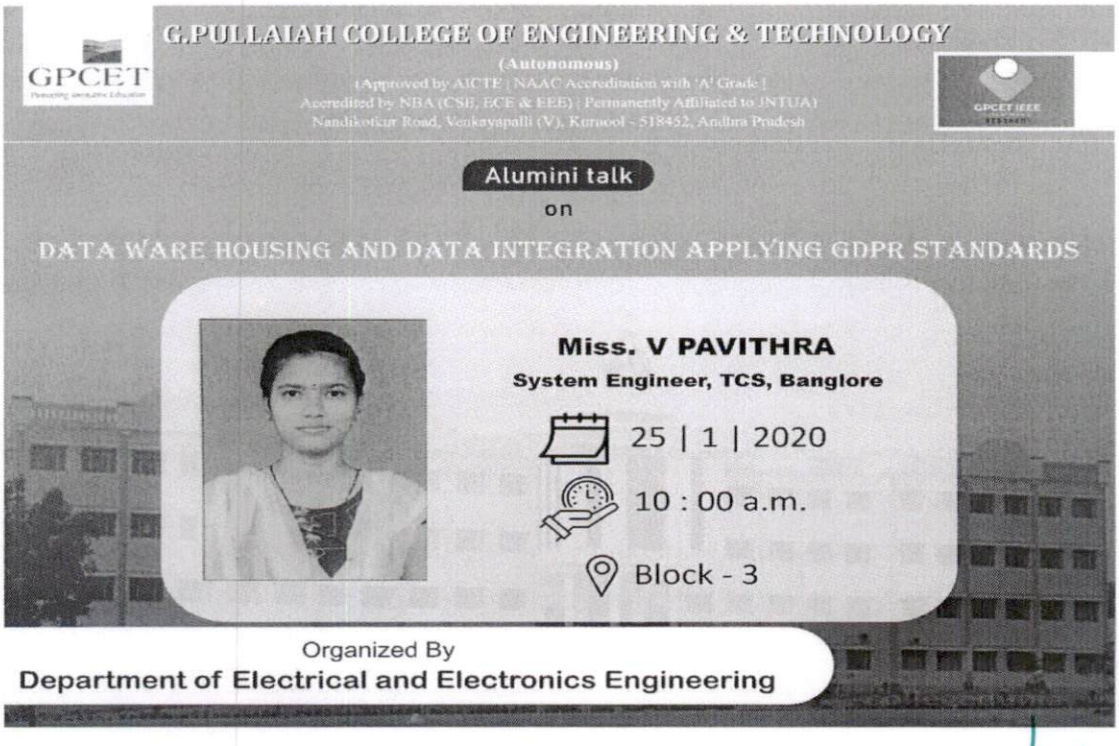
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

REPORT ON DATA WARE HOUSING AND DATA INTEGRATION APPLYING GDPR STANDARDS

Department of EEE, G.Pullaiah College of Engineering and Technology is organising in association with Ms.V.Pavithra a one day webinar on "DATA WARE TCS HOUSING AND DATA INTEGRATION APPLYING GDPR STANDARDS" on 25/01/2020. Ms.V.Pavithra is the System Engineer, ,Banglore. A total of 110 students attended in this session from III B.Tech .



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Data warehousing and data integration processes must adhere to GDPR (General Data Protection Regulation) standards to ensure the protection of personal data and compliance with privacy regulations. Here's how GDPR principles can be applied to data warehousing and data integration:

1. Data Minimization: Limit the collection and storage of personal data to what is necessary for specific purposes. In data warehousing, implement data minimization techniques such as anonymization or pseudonymization to reduce the risk associated with storing personal data.

2. Lawful Basis for Processing: Ensure that there is a lawful basis for processing personal data, such as consent, contractual necessity, legal obligation, vital interests, public task, or legitimate interests. Document and maintain records of the lawful basis for processing data in the data warehouse.

3. Purpose Limitation: Process personal data only for specified, explicit, and legitimate purposes. Define clear purposes for data integration and data warehousing activities, and ensure that data is not used for incompatible purposes without appropriate legal grounds.

4. Data Quality and Accuracy: Maintain accurate and up-to-date personal data in the data warehouse. Implement data quality processes to ensure the integrity and accuracy of data, including data cleansing, deduplication, and validation procedures.

5. Security Measures: Implement appropriate technical and organizational measures to ensure the security of personal data in data warehousing and data integration processes. This includes encryption, access controls, pseudonymization, data masking, and regular security audits.

6. Data Subject Rights: Respect data subjects' rights under GDPR, including the right to access, rectification, erasure, restriction of processing, data portability, and objection to processing. Establish procedures to facilitate data subjects' exercise of their rights regarding data stored in the data warehouse.

7. Data Protection Impact Assessments (DPIAs): Conduct DPIAs for data warehousing and data integration projects involving the processing of personal data, especially when implementing new technologies or processing activities that are likely to result in high risks to data subjects' rights and freedoms.

8. Data Breach Notification: Establish procedures for detecting, reporting, and responding to data breaches involving personal data stored in the data warehouse. Notify the relevant supervisory authority and affected data subjects without undue delay in the event of a data breach.

9. Data Retention and Deletion: Define data retention periods and criteria for personal data stored in the data warehouse, and regularly review and delete data that is no longer necessary for the purposes for which it was collected or processed.

10. Contractual Obligations: Ensure that data processing agreements are in place with any third-party data processors involved in data warehousing or data integration activities, outlining their responsibilities and obligations regarding GDPR compliance.By applying GDPR standards to data warehousing and data integration processes, organizations can ensure the lawful, fair, and transparent processing of personal data while protecting individuals' privacy rights and maintaining regulatory compliance.

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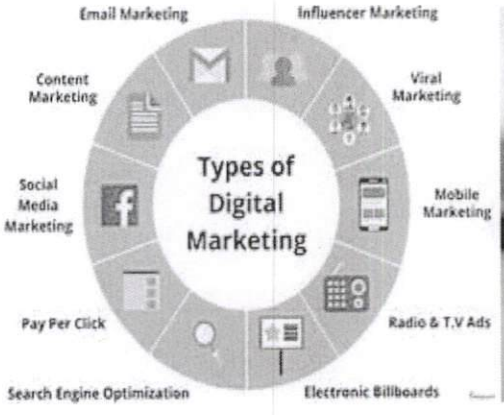
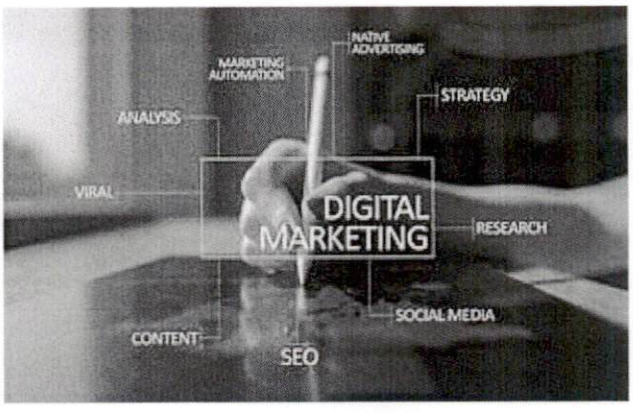
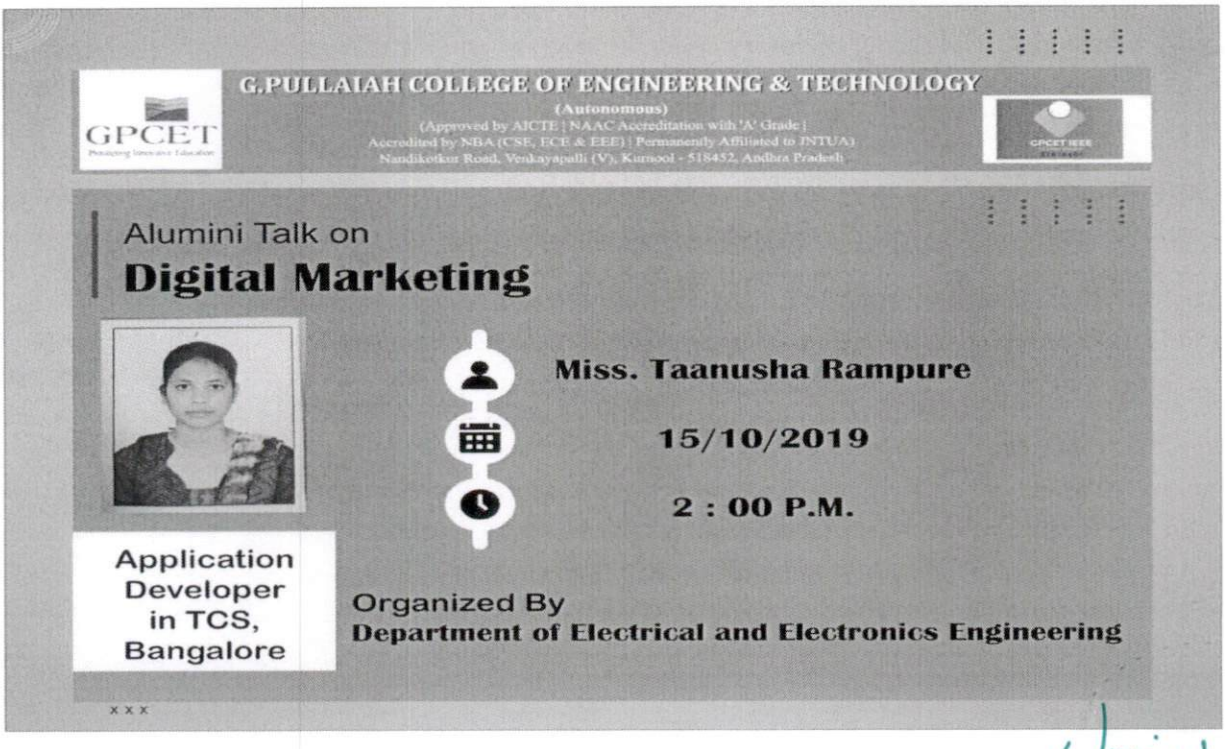
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

REPORT ON DIGITAL MARKETING

Department of EEE, G.Pullaiah College of Engineering and Technology is organising in association with Miss. Taanusha Rampure a one day webinar on "DIGITAL MARKETING " on 15/10/2019. Miss. Taanusha Rampure is theApplication Developer in TCS,Banglore. A total of 100 students attended in this session from IV year 1ST sem B.Tech 2019.







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Digital marketing refers to the use of online channels and platforms to promote products, services, or brands. It encompasses a wide range of tactics and strategies aimed at reaching and engaging target audiences through digital mediums. Some common components of digital marketing include:

1.**Search Engine Optimization (SEO)**: Optimizing website content to improve its visibility in search engine results pages, thereby driving organic traffic.

2.**Content Marketing**: Creating and distributing valuable and relevant content to attract and retain a specific audience, with the goal of driving profitable customer action.

3.**Social Media Marketing**: Using social media platforms to connect with audiences, build brand awareness, drive website traffic, and generate leads or sales.

4.**Email Marketing**: Sending targeted messages to a list of subscribers to promote products, services, or events, or to nurture leads.

5. **Pay-Per-Click (PPC) Advertising**: Placing ads on search engines or social media platforms and paying a fee each time the ad is clicked. This method can generate immediate traffic to a website.

6. **Affiliate Marketing**: Partnering with other businesses or individuals (affiliates) who promote your products or services in exchange for a commission on sales generated through their referral.

7. **Influencer Marketing**: Collaborating with influential individuals on social media platforms to promote products or services to their followers.

8. **Online PR (Public Relations)**: Using online channels to manage and improve a brand's reputation, as well as to generate positive publicity and media coverage.

9. **Analytics and Data-driven Marketing**: Utilizing data analysis tools to track, measure, and optimize digital marketing campaigns for better performance and ROI.Digital marketing offers numerous advantages over traditional marketing methods, including greater reach, cost-effectiveness, real-time results tracking, and the ability to target specific demographics with precision. As technology continues to evolve, digital marketing strategies also continue to evolve, offering new opportunities for businesses to connect with their audiences in meaningful ways.

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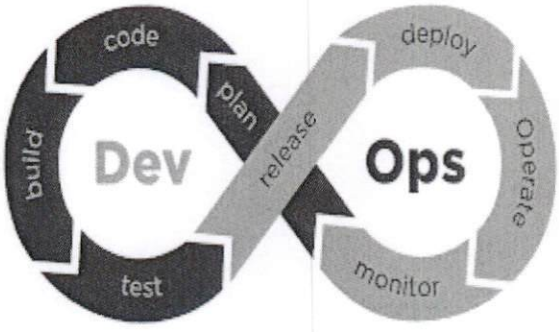
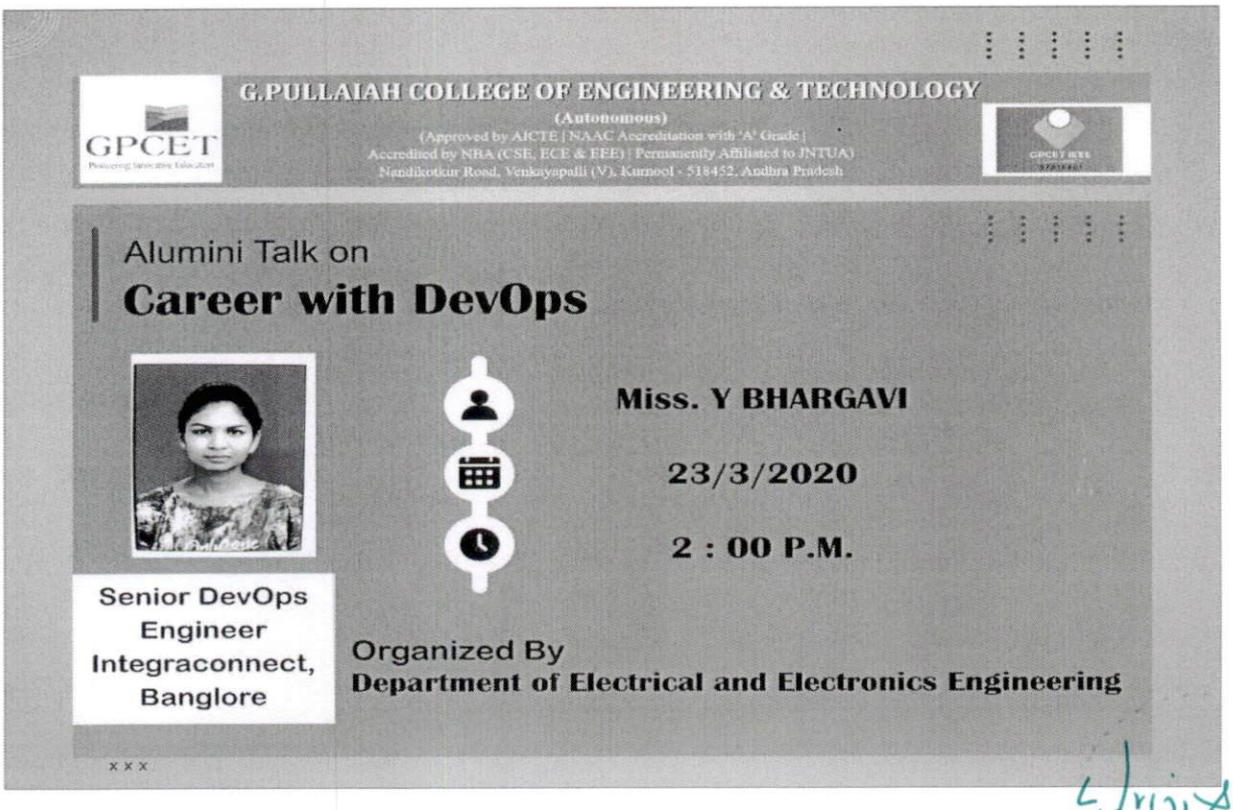
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

REPORT ON CAREER WITH DEVOPS

Department of EEE, G.Pullaiah College of Engineering and Technology is organising in association with Ms.Y.Bhargavi a one day webinar on "CAREER WITH DEVOPS" on 23/03/2020. Ms.Y.Bhargavi is the Senior Devops Engineer Integraconnect,Banglore. A total of 110 students attended in this session from IV B.Tech





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A career in DevOps offers a wide range of opportunities for professionals with diverse backgrounds and skills. Here's a guide to building a career in DevOps:

1. Skills and Knowledge:

- Automation Tools: Gain proficiency in automation tools like Jenkins, Ansible, Puppet, Chef, or Terraform.
- Scripting Languages: Learn scripting languages such as Python, Shell scripting, or PowerShell.
- Version Control Systems: Understand version control systems like Git or SVN.
- Containerization: Familiarize yourself with containerization technologies like Docker and container orchestration tools like Kubernetes.
- Cloud Platforms: Gain knowledge of cloud platforms such as AWS, Azure, or Google Cloud Platform (GCP).
- Monitoring and Logging: Learn about monitoring tools like Prometheus, Grafana, ELK stack (Elasticsearch, Logstash, Kibana), or Splunk.
- Continuous Integration/Continuous Deployment (CI/CD): Understand CI/CD pipelines and tools like Jenkins, GitLab CI/CD, or Travis CI.
- Infrastructure as Code (IaC): Master IaC tools like Terraform, CloudFormation, or Ansible for infrastructure provisioning and management.

2. Education and Certifications:

- Pursue relevant certifications such as AWS Certified DevOps Engineer, Azure DevOps Engineer Expert, or Kubernetes certifications.
- Consider formal education in computer science, software engineering, or related fields.
- Participate in workshops, boot camps, and online courses to enhance your skills.

3. Experience:

- Gain experience through internships, entry-level positions, or projects that involve DevOps practices.
- Volunteer for cross-functional teams or projects to collaborate with developers, testers, and operations personnel.
- Showcase your skills through personal projects, open-source contributions, or participation in hackathons.

4. Networking and Community Involvement:

- Join DevOps communities, forums, and meetups to network with professionals in the field.
- Engage in online discussions, contribute to open-source projects, and attend conferences and workshops.
- Connect with industry experts and mentors who can provide guidance and advice.

5. Continuous Learning and Growth:

- Stay updated with emerging technologies, trends, and best practices in DevOps.

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- Pursue advanced certifications or specialization areas based on your interests and career goals.
- Embrace a growth mindset and be open to learning new tools and methodologies.

6. Career Path:

- Entry-level roles: DevOps Engineer, Junior Automation Engineer, Release Engineer.
- Mid-level roles: DevOps Consultant, Site Reliability Engineer (SRE), DevOps Architect.
- Senior-level roles: DevOps Manager, Director of DevOps, Chief DevOps Officer (CDO).

7. Soft Skills:

- Strong communication skills to collaborate effectively with cross-functional teams.
- Problem-solving abilities to troubleshoot issues and optimize processes.
- Adaptability and willingness to embrace change in a dynamic environment.
- Leadership qualities to drive initiatives and mentor junior team members.

Building a successful career in DevOps requires a combination of technical expertise, hands-on experience, continuous learning, and effective communication. By honing your skills, gaining relevant experience, and staying connected with the DevOps community, you can thrive in this dynamic and rewarding field.

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