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1. **Slide fest** (Paper Presentation)

   Date & Time: 13/03/2025 & FN (Parallel Participation is Possible)

2. **Imago Technica** (Poster Presentation)

   Date & Time: 13/03/2025 & FN (Parallel Participation is Possible)

3. **Hackathon** (Bring your novel ideas as Presentation / Project / App)

   Date & Time: 13/03/2025 & AN

4. **CogniChallenge** (Technical Quiz)

   Date & Time: 14/03/2025 & FN

5. **Tech Debate** (Core, Circuit Streams) & Algorithm Design (CSE & IT Streams)

   Date & Time: 14/03/2025 & FN

Note:

➢ For the events slide Fest, Imago Technica the **themes are open**. You may also consider the following themes to ease your topics.

➢ For Hackathon, follow the given statement and design your ideas as presentations / Projects / App

➢ For the Cognichallege event, you must thorough in Recent technologies and Engineering concepts in all aspects. (There will be preliminary round for all the students.)

➢ For the Tech Debate event, we will provide topics at the spot and you have to discuss about the same. It will be related to your programme as mentioned.

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1. Themes for Slide fest:

❖ **Core Stream (Mechanical, Civil, Automobile)**

1. **Sustainable Infrastructure Development**: Innovations in eco-friendly construction materials and methods.

2. **Smart Cities**: Integration of technology in urban planning and infrastructure.

3. **Renewable Energy Solutions**: Advancements in wind, solar, and bioenergy for civil, mechanical, and automotive applications.

4. **Autonomous Vehicles**: The future of self-driving cars and related technologies.

5. **Disaster-Resilient Structures**: Engineering solutions for earthquake, flood, and hurricane resistance.

6. **3D Printing in Construction**: Applications and future prospects.

7. **Green Building Technologies**: Enhancing energy efficiency and reducing carbon footprint.

8. **Intelligent Transportation Systems**: Innovations in traffic management and vehicle communication.

9. **Recycling and Waste Management**: Engineering solutions for sustainable waste reduction.

10. **Advanced Materials for Engineering**: Development and application of new materials for construction and manufacturing.

❖ **Circuit Stream (EEE, VLSI ECE & ACT)**

1. **Internet of Things (IoT)**: Applications and innovations in smart devices and connected systems.

2. **Renewable Energy Systems**: Innovations in solar panels, wind turbines, and energy storage solutions.

3. **Robotics and Automation**: Trends and advancements in robotics for industrial and consumer applications.

4. **5G Technology**: Impact and future applications of next-generation wireless communication.

5. **Wearable Technology**: Engineering advances in health monitoring and smart textiles.

6. **Embedded Systems**: Design and development of microcontroller-based systems.

7. **Smart Grids**: Innovations in intelligent power distribution and management.

8. **Biomedical Engineering**: Advances in medical devices and diagnostic technologies.

9. **Optoelectronics**: Innovations in light-based technologies for communication and sensing.

10. **Power Electronics**: Advances in converting and controlling electric power.

❖ **CSE Stream (CSE, AIML, CYS)**

1. **Artificial Intelligence in Healthcare**: AI applications in diagnostics, treatment, and patient care.

2. **Cybersecurity**: Techniques and technologies for protecting data and systems.

3. **Big Data and Analytics**: Innovations in processing and analyzing large datasets.

4. **Blockchain Technology**: Applications beyond cryptocurrencies, such as in supply chain and finance.

5. **Natural Language Processing**: Advances in understanding and generating human language.

6. **Quantum Computing**: Future prospects and applications in solving complex problems.

7. **Machine Learning Algorithms**: Innovations and applications in various fields.

8. **Virtual Reality (VR) and Augmented Reality (AR)**: Applications and advancements in immersive technologies.

9. **Cloud Computing**: Trends and future directions in cloud services and architecture.

10. **Human-Computer Interaction**: Designing intuitive and user-friendly interfaces.

❖ **IT Stream (IT, AI&DS)**

1. **Cloud Computing**: Trends and future directions in cloud services and architecture.

2. **Augmented Reality (AR) and Virtual Reality (VR)**: Applications in gaming, education, and industry.

3. **Data Science in Business**: Leveraging data analytics for strategic decision-making.

4. **Smart Healthcare Systems**: IT solutions for improving patient care and hospital management.

5. **Ethical AI and Bias**: Addressing fairness, accountability, and transparency in AI systems.

6. **Internet of Things (IoT)**: Innovations and applications in connected devices and systems.

7. **Data Privacy and Security**: Techniques and technologies for protecting personal data.

8. **Digital Transformation**: IT solutions for enhancing business processes and operations.

9. **Artificial Intelligence in Finance**: Applications in fraud detection, trading, and customer service.

10. **E-Governance**: IT solutions for improving government services and citizen engagement.

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2. Themes for Poster Presentation

1. **Innovations in Sustainable Engineering:** Showcase new materials and technologies for eco-friendly construction.

2. **Smart Transportation Systems:** Present ideas for improving urban mobility through intelligent systems.

3. **Renewable Energy Solutions:** Explore innovative ways to harness and utilize renewable energy.

4. **Advanced Manufacturing Techniques:** Highlight the latest advancements in manufacturing processes.

5. **Disaster-Resilient Infrastructure:** Present designs for structures that can withstand natural disasters.

6. **Green Building Technologies:** Showcase technologies that make buildings more energy-efficient and sustainable.

7. **Automated Construction:** Explore the use of robotics and automation in construction.

8. **Future of Automotive Design:** Present concepts for the next generation of vehicles.

9. **Waste Management Solutions:** Explore innovative methods for managing and recycling waste.

10. **Urban Planning for Smart Cities:** Present ideas for designing cities of the future.

1. **IoT in Everyday Life:** Showcase the impact of IoT on daily activities.

2. **Wearable Technology:** Explore the latest trends and innovations in wearable devices.

3. **Smart Grid Technology:** Present advancements in smart grid systems for efficient energy distribution.

4. **Wireless Communication Systems:** Showcase the future of wireless communication technology.

5. **Robotics and Automation:** Explore the latest innovations in robotics and their applications.

6. **Energy Harvesting Technologies:** Present new methods for harvesting energy from the environment.

7. **AI in Electronics:** Showcase the integration of AI in electronic devices.

8. **Smart Home Solutions:** Explore technologies that make homes smarter and more efficient.

9. **5G and Beyond:** Present the future of wireless networks and their impact on society.

10. **Biomedical Electronics:** Showcase advancements in electronics for healthcare applications.

1. **AI in Healthcare:** Explore the use of AI for improving healthcare delivery.

2. **Blockchain Technology:** Present the applications and benefits of blockchain.

3. **Cybersecurity Threats and Solutions:** Showcase the latest threats and solutions in cybersecurity.

4. **Machine Learning Applications:** Explore various applications of machine learning in different industries.

5. **Big Data Analytics:** Present how big data is transforming industries.

6. **Smart City Solutions:** Explore how technology is being used to create smart cities.

7. **Virtual Reality and Augmented Reality:** Showcase the latest advancements in VR and AR.

8. **Cloud Computing:** Present the benefits and applications of cloud computing.

9. **Human-Computer Interaction:** Explore the future of how humans interact with computers.

10. **Ethical AI:** Present the importance of ethics in the development and use of AI.

❖ **IT Stream (IT, AI&DS)**

1. **E-Commerce Trends:** Showcase the latest trends and technologies in e-commerce.

2. **Smart Healthcare Systems:** Present solutions for improving healthcare through IT.

3. **Blockchain in Supply Chain:** Explore the use of blockchain technology in supply chain management.

4. **AI in Customer Service:** Showcase how AI is transforming customer service.

5. **Smart City Infrastructure:** Present IT solutions for smart city development.

6. **Cloud Security:** Explore the importance of security in cloud computing.

7. **IoT and Smart Homes:** Present how IoT is making homes smarter.

8. **Data Privacy and Protection:** Showcase the importance of data privacy and methods to protect it.

9. **AI in Financial Services:** Explore the applications of AI in the finance industry.

10. **Sustainable IT Solutions:** Present IT solutions that contribute to sustainability.

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3. Themes for Hackathon

❖ Core Stream (Mechanical, Civil, Automobile)

1. **Smart Traffic Management System**: Develop a system to optimize traffic flow using sensors and AI.

2. **Eco-Friendly Building Materials**: Create innovative, sustainable building materials.

3. **Automated Construction Robots**: Design robots to assist in construction tasks.

4. **Smart Parking Solutions**: Develop a system to find and reserve parking spots.

5. **Renewable Energy Solutions**: Create devices to harness renewable energy sources.

6. **Smart Vehicle Diagnostics**: Develop a system for real-time vehicle health monitoring.

7. **Disaster-Resilient Structures**: Design buildings that can withstand natural disasters.

8. **Automated Waste Management**: Create a system for efficient waste collection and recycling.

9. **Smart HVAC Systems**: Develop energy-efficient heating, ventilation, and air conditioning systems.

10. **Autonomous Delivery Vehicles**: Design vehicles for automated delivery services.

❖ Circuit Stream (EEE, VLSI, ECE & ACT)

1. **Smart Grid Solutions**: Develop systems for efficient energy distribution.

2. **IoT-Based Home Automation**: Create smart home devices controlled via the internet.

3. **Wearable Health Monitors**: Design devices to monitor health metrics in real-time.

4. **Smart Agriculture Solutions**: Develop systems to optimize farming using sensors and AI.

5. **Energy Harvesting Devices**: Create devices that generate energy from ambient sources.

6. **Smart Lighting Systems**: Develop energy-efficient lighting solutions.

7. **Automated Surveillance Systems**: Design systems for real-time security monitoring.

8. **Smart Water Management**: Create systems to monitor and manage water usage.

9. **Wireless Power Transfer**: Develop systems for transmitting power wirelessly.

10. **Smart Grid Cybersecurity**: Design solutions to protect smart grids from cyber threats.

❖ CSE Stream (CSE, AIML, CYS)

1. **AI-Powered Chatbots**: Develop chatbots for customer service or education.

2. **Predictive Analytics for Healthcare**: Create systems to predict health issues using data.

3. **Smart City Solutions**: Develop applications to improve urban living.

4. **Blockchain-Based Voting Systems**: Design secure and transparent voting platforms.

5. **AI-Powered Personal Assistants**: Create virtual assistants for various tasks.

6. **Cybersecurity Solutions**: Develop systems to protect against cyber threats.

7. **Machine Learning for Finance**: Create models to predict stock market trends.

8. **AI-Powered Content Moderation**: Develop systems to filter inappropriate content.

9. **Smart Education Platforms**: Create platforms for personalized learning experiences.

10. **AI for Environmental Monitoring**: Develop systems to monitor and protect the environment.

❖ IT Stream (IT, AI&DS)

1. **Cloud-Based Data Management**: Develop systems for efficient data storage and retrieval.

2. **Smart E-Commerce Solutions**: Create platforms for personalized shopping experiences.

3. **AI-Powered Fraud Detection**: Develop systems to detect and prevent fraud.

4. **Smart Healthcare Systems**: Create applications to improve healthcare delivery.

5. **IoT-Based Smart Cities**: Develop systems to enhance urban living using IoT.

6. **Blockchain for Supply Chain Management**: Design systems to track and manage supply chains.

7. **AI-Powered Customer Insights**: Create systems to analyze customer behavior.

8. **Smart Transportation Solutions**: Develop applications to optimize transportation.

9. **Cybersecurity for IoT Devices**: Design systems to protect IoT devices from cyber threats.

10. **AI-Powered Predictive Maintenance**: Create systems to predict and prevent equipment failures.