



# IEOM Society

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## 2024 IEOM Awards

### 4<sup>th</sup> Indian Industrial Engineering and Operations Management International Conference

Hyderabad, Telangana, India, November 7-9, 2024

Host: Jawaharlal Nehru Technological University Hyderabad (JNTUH)

Co-hosts: BVRIT, HITAM and PDACE. Venue: JNTUH campus

#### **IEOM Distinguished Leadership Award**

Sri Burra Venkatesham, V.C. I/c, JNTUH

Sri K. V. Vishnu Raju, Chairman, Sri Vishnu Education Society, Hyderabad

Sri Shashil G. Namoshi, President, HKE Society, Kalaburagi

Sri Prashant Arutla, Founder Chairman, HITAM, Hyderabad

Dr. Rupa Vasudevan, Chancellor, BEST IU, Anantapur AP

#### **Distinguished Educator Award**

Sri V Balakista Reddy, Chairman, Telangana State Council of Higher Education, Hyderabad

Dr. K. Lakshmi Prasad, Director, B. V. Raju Institute & Technology, Narsapur, Hyderabad

#### **Distinguished Industry Achievement Award**

Sri Ravichandran Rajagopal, Vice-Chairman, Sri Vishnu Educational Society, Hyderabad

#### **Distinguished Professor Award**

Dr. K Vijaya Kumar Reddy, Rector, JNTUH, Hyderabad

Dr. Mohammed Yousuf Ali, Professor and Principal, Arjun College of Technology & Science, Batasingaram, RR Dist.

Dr. Satish Reddy, Professor, Hyderabad Institute of Technology and Management, Hyderabad

#### **Outstanding Professor Award in Lean Six Sigma**

Dr. V. Murali Krishna, Professor of Mechanical Engg., B. V. Raju Institute of Technology, Narsapur, Hyderabad

#### **Outstanding Professor Award in Business Management**

Dr. Sindhu, MBA, Ph.D., Principal, University College of Management Hyderabad, Jawaharlal Nehru Technological University Hyderabad, Kukatpally, Hyderabad, Telangana, India

#### **Outstanding Professor Award in Design**

Dr. J. Suresh Kumar, Senior Professor, Mechanical Engg. Dept., JNTUH, Hyderabad

#### **Outstanding Professor in Supply Chain Management**

Dr. M. S. Uppin, Professor & HOD, Industrial & Production Engg., P.D.A. College of Engineering, Kalaburagi

Prof. Kandasamy Jayakrishna, Professor, School of Mechanical Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu, India

**Outstanding Professor Award in Human Factors & Ergonomics**

Dr. Qutubuddin Syed Mohammed, Associate Professor, Industrial & Production Engineering Dept., P.D.A. College of Engineering, Kalaburagi, India

**Outstanding Researcher Award**

Dr. K. Venkateswara Rao, Registrar and Professor of Nano Science & Technology, JNTUH, Hyderabad  
Dr. Syed Nawazish Mehdi, Principal and Director R&D, Global Institute of Engineering and Technology, Hyderabad  
Dr. Jayashree Agarkhed, Professor, Computer Science Department, P.D.A. College of Engineering, Kalaburagi

**Teaching, Learning and Accreditation Award**

Dr. Devika SV, Professor and HOD of ECE & Associate Dean Accreditations, HITAM (Hyderabad Institute of Technology and Management), Hyderabad, Telangana, India  
Outstanding Teaching Award  
Dr. S V Satyanarayana, Assistant Professor in Electrical and Electronics Engineering, Hyderabad Institute of Technology & Management (HITAM), Hyderabad, India

**Outstanding Service Award**

Santosh Naik, Assistant Professor, Hyderabad Institute of Technology and Management, Hyderabad, Telangana, India

**Industry 4.0 Award**

Dr. K. Rayudu, Professor and Head of EEE Department, B. V. Raju Institute of Technology, Narsapur, Hyderabad

**Distinguished Professor and Service Award**

Dr. S. Arvind, Principal, Hyderabad Institute of Technology and Management, Hyderabad  
Dr. M. Manzoor Hussain, Former Registrar, JNTUH and Professor in Mechanical Engineering, JNTUH, Hyderabad, India  
Dr. Sanjay Dubey, Principal, B.V. Raju Institute of Technology, Narsapur, Hyderabad

**Distinguished Service Award**

Dr. Qutubuddin S.M., Industrial & Production Engineering, P.D.A. College of Engineering, Kalaburagi, India

**Woman in Industry and Academic Award**

Dr. Nagajyothi Koripella, Pro VC Academics, Bharatiya Engineering Science & Technology Innovation University (BEST IU), Gownivaripalli, Gorantla, Andhra Pradesh, India  
Dr. P. R. Lakshmi Eswari, Scientist G and Centre Head, C-DAC: Centre of Development for Advanced Computing, Hyderabad, Telangana, India  
Dr. Ishrat Meera Mirzana, Professor in Mechanical Engineering and Coordinator, R&D, Muffakham Jah College of Engineering and Technology, Hyderabad.

**Rising Star Award in Advanced Manufacturing**

Dr. A. Varun, Associate Professor and Head of Mechanical Engineering Department, BVRIT, Narsapur, Hyderabad

**Outstanding IEOM Student Chapter Award**

IEOM Student Chapter at Department of Industrial & Production Engineering, P.D.A. College of Engineering, Kalaburagi  
IEOM Student Chapter at Mechanical Engg. Department, JNTUH, Hyderabad  
IEOM Student Chapter at Muffakham Jah College of Engineering and Technology, Hyderabad  
IEOM Student Chapter at Ramaiah University of Applied Sciences

**IEOM Outstanding Student Award**

S.M. Hasanuddin, Student in CSE, Methodist College of Engineering and Technology, Hyderabad, India  
Ayesha Fatima, Student in CSE, Stanley College of Engineering and Technology for Women, Hyderabad  
Saheba Aejaaz, Student in CSE, Stanley College of Engineering and Technology for Women, Hyderabad

## **Competition Winners**

### **Doctoral Dissertation Competition sponsored by Airbus**

#### First Place

ID 58 Utilizing AI in Sales and Marketing to Foster Global Systems Integrator (GSI) Partnerships for Go-to-Market (GTM) Strategies: A Creative and Disruptive Approach for Business Impact  
Ramanath Koppam Suryaprakash, MS, MBA, Ph.D. Candidate, Business Management, Bharatiya Engineering Science & Technology Innovation University (BESTIU), India

#### Second Place

ID 102 “Seasonal Weather Variations and Workload: Exploring Their Combined Impact on Teachers’ Mental Health, Job Satisfaction, and Performance in the USA”  
Nuzhath Begum, Ph. D scholar, Department of Psychology, Organizational Psychology, Bhartiya Engineering Science & Technology Innovation University (BESTIU), Gownivariipally, Gorantla, Andhra Pradesh, India

#### Third Place

ID 107 Efficient Consensus Algorithm for Split-Join Blockchain Framework: A Comparative Analysis of PoW, PoS, and PoA  
Vemula Harish, Research Scholar, Jawaharlal Nehru Technological University Hyderabad, India  
R. Sri devi, Professor, JNTUH College of Engineering, Hyderabad, India  
K S Sadasiva Rao, Professor in Dept. of CSE Dean R&D, Sri Indu College of Engineering and Technology, Hyderabad, India

### **Master Thesis Competition - Onsite**

#### First Place

ID 140 Structural and CFD Analysis of Concentric Tube Heat Exchanger Using CuO Nanofluid  
Ishrat M. Mirzana, Professor, Department of Mechanical Engineering, Mufakham Jah College of Engineering and Technology, Hyderabad, India  
Zuriah, Department of Mechanical Engineering, Mufakham Jah College of Engineering and Technology, Hyderabad, India

#### Second Place

ID 95 Analysis and Development of Smoothie Advisor by using Machine Learning  
Archana C, MBA Student, Ramaiah University of Applied Sciences, Bengaluru, India  
Shilpa R G, Assistant Professor, Faculty of Management & Commerce, Ramaiah University of Applied Sciences, Bengaluru, India

#### Third Place

ID 87 Developing A Promotional Strategy For “Getting People into The Bus.”  
Panurish P, MBA student, Marketing Management, M S Ramaiah University of Applied Sciences, New BEL Road, Bengaluru, India  
Anicar D Manavi, Assistant Professor, Faculty of Management and Commerce, M S Ramaiah University of Applied Sciences, New BEL Road, Bengaluru, India

### **Master Thesis Competition - Online**

#### First Place

ID 91 Urban Travel Demand Modelling for Indian Condition Using IoT-based Traffic Prediction  
Ch. Usha Rani, Research Scholar - Bharatiya Engineering Science and Technology Innovation University (BESTIU), Department of Computer Science, India  
V. Goutham, Professor - Nalla Narasimha Reddy Education Society’s Group of Institutions Hyderabad, Dept C.S.E, India

#### Second Place

ID 185 The Integration of Artificial Intelligence and Machine Learning in Forensic Analysis: Tools, Methods, and Applications  
Sania Thahaseen, MTech Cyber Forensics & Information Security, Department Of Computer Science and Engineering, JNTUH University College of Engineering, Science And Technology, Hyderabad, Telangana, India

R Sridevi, Professor & Director, Directorate of Entrepreneurship, Innovation and Start-ups, JNTUH University College Of Engineering, Science and Technology, Hyderabad, Telangana, India

Third Place

ID 186 Drone Forensics: Investigating the Challenges and Solutions in the Age of UAVs  
Sarala Gnaneshwari, M. Tech Cyber Forensics & Information Security, Department of Computer Science and Engineering, JNTUH University College Of Engineering, Science And Technology, Hyderabad, Telangana, India  
R Sridevi, Professor & Director, Directorate of Entrepreneurship, Innovation and Start-ups, JNTUH University College Of Engineering, Science And Technology, Hyderabad, Telangana, India

**Graduate Student Paper Competition sponsored by Eaton Corporation**

First Place

ID 152 Determination of Optimal Workplace and Process Parameters in a Small-Scale Tailoring Unit Using Taguchi's Orthogonal Array Method  
K Jyothis Prakash, PG Scholar, Industrial Engineering, Department of Mechanical Engineering, College of Engineering Trivandrum, Kerala, India  
S A Binoosh, Professor, Department of Mechanical Engineering, College of Engineering Trivandrum, Kerala, India

Second Place

ID 159 Musculoskeletal Risk Analysis in A Tire Manufacturing Industry  
Adithya Krishna P A, PG Scholar, Industrial Engineering, Department of Mechanical Engineering, College of Engineering Trivandrum, Kerala, India  
Binoosh S A, Professor & PG Coordinator, Department of Mechanical Engineering, College of Engineering Trivandrum, Kerala, India

Third Place

ID 160 Posture Analysis on Musculoskeletal Disorder-Operators in a Process Industry  
M Aswin, PG Scholar, Industrial Engineering, Department of Mechanical Engineering, College of Engineering Trivandrum, Kerala, India  
S A Binoosh, Professor, Department of Mechanical Engineering, College of Engineering Trivandrum, Kerala, India

ID 60 Impact of Resource limitations on Flight Delays  
Deena R, Middle East College, Oman

**Undergraduate Student Paper Competition sponsored by Siemens - Onsite**

First Place

ID 142 Evaluating the Transformative Role of Artificial Intelligence Tools in Enhancing Engineering Education  
Akshaya Dandu, Mahima Kalidindi and R. Priyanka, Department of Computer Science and Engineering (AI&ML), BVRIT Hyderabad College of Engineering for Women, Hyderabad, Telangana, India  
M. Phanindra Rushi, Department of Mechanical Engineering, BVRIT Narsapur, Narsapur, Telangana, India

Second Place

ID 154 Design of PV based wireless charging track for EV application  
Bommidala Sanjana, Bujagouni Tharun Goud and Barla Abhishek, Department of Electrical and Electrical Engineering, B.V. Raju Institute of Technology, Narsapur, Medak, Telangana, India  
P. Chandra Vabu, Department of Electrical and Electrical Engineering B V Raju Institute of Technology, Narsapur, Medak, Telangana, India

ID 163 Vehicle Automatic Alcohol Monitoring and Ignition Control System  
Utharpally Srikanth, V. Dhanunjaya, K. Hareeshkumar, Y Vijay Kumar and B Ravindhar, Electrical and Electronics Engineering, B V Raju Institute of Technology, Narsapur, Medak, Telangana, India

Third Place

ID 53 From Legacy Systems to Intelligent Automation: Bridging the Gap in Industrial Applications (A Survey)  
Sadiya Ansari, Mudassir Amaan Ansari and Furqan Ahmed Ahad Shaikh, Department of Artificial Intelligence and Data Science, Anjuman College of Engineering and Technology, Nagpur, Maharashtra, India

Shantanu Patne, Sheikh Saniya Kousar, Sharon Joseph and Mohsin Ahamed Abdul Salam Malik, Department of Electronics and Telecommunication, Anjuman College of Engineering and Technology, Nagpur, Maharashtra, India  
Nabeel Khan, Department of Electrical Engineering, Anjuman College of Engineering and Technology, Nagpur, Maharashtra, India  
Mohd Arshan Sheikh, Department of Computer Science, Anjuman College of Engineering and Technology, Nagpur, Maharashtra, India

ID 141 An Overview of Nature-Inspired and Swarm Intelligence Algorithms  
Saniya Chheda and Shameerpet Bhavya Sree, Student, Department of Mechanical Engineering, B V Raju Institute of Technology, Narsapur 502313, Telangana, India  
A. Varun and Mechiri Sandeep Kumar, Associate Professor, Department of Mechanical Engineering, B V Raju Institute of Technology, Narsapur 502313, Telangana, India

### **Undergraduate Student Paper Competition sponsored by Siemens - Online**

#### First Place

ID 22 Lean Storage Model for Enhancing Operational Efficiency: A Case Study of a Peruvian Pharmaceutical SME  
Yoshan Akira Yseki-Paucar, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú  
Jorge Mauricio Miller-Espejo, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

#### Second Place

ID 18 Comprehensive Lean Warehouse Service Model for Fuel Stations: A Case Study in Inventory Management and Operational Efficiency  
Jaime Fabricio Elorrieta-Ordoñez, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú  
Martín Ivan Guevara-Cardozo, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

ID 125 Secure Database Access Management System  
Anika Gauhar, Madiha.H. Khan, Suhaina Salim Gadkanoj, Mohd. Farhat Kausar Sharif and Priyanka Anil Jadhav, Student, Department of Electronics and Telecommunication Engineering, Anjuman College of Engineering and Technology, RTMN University, Nagpur, India  
Ruhina Quazi, Head of Department, Department of Electronics and Telecommunication Engineering, Anjuman College of Engineering and Technology, RTM Nagpur University, Nagpur, India

#### Third Place

ID 17 A Lean Production Model to Enhance Operational Efficiency in Textile SMEs: A Case Study  
Daniel Mercado-Seguil, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú  
José Enrique Mamani-Chávez, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

ID 19 Lean Warehouse Strategies in Plastic Product SMEs: A Case Study on Improving Operational Efficiency  
Adrian Coronel-Justo, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú  
Salvador Alonso Vera-Padilla, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

### **Undergraduate Research Competition sponsored by Daikin Applied - Onsite**

#### First Place

ID 122 E-waste management awareness and disposal practices among engineering students in Hyderabad City, India  
S.M. Hasanuddin, Student, Methodist College of Engineering and Technology, Hyderabad, India  
Ayesha Fatima, Student, Stanley College of Engineering and Technology for Women, Hyderabad, India  
Saheba Aijaz, Student, Stanley College of Engineering and Technology for Women, Hyderabad, India  
Qutubuddin S.M., Associate Professor, P.D.A. College of Engineering, Kalaburagi, India  
Umaira Shahneen, Student, P.D.A. College of Engineering, Kalaburagi, India

#### Second Place

ID 145 Detecting Manipulated Visuals with AI  
Umaira Shahneen, Student, P.D.A. College of Engineering, Kalaburagi, India  
Kafeel Kamran, Student, P.D.A. College of Engineering, Kalaburagi, India  
S.M. Hasanuddin, Student, Methodist College of Engineering and Technology, Hyderabad, India  
Ayesha Fatima, Student, Stanley College of Engineering and Technology for Women, Hyderabad, India  
Saheba Aijaz, Student, Stanley College of Engineering and Technology for Women, Hyderabad, India  
Qutubuddin S.M., Associate Professor, P.D.A. College of Engineering, Kalaburagi, India

Third Place

ID 161 Cardiovascular Disease (CVD) Analysis using Gradient Boosting Algorithms like CatBoost, LightGBM  
Kafeel Kamran, Student, BIT College of Engineering, Bangalore, India  
Umaira Shahneen, Student, P.D.A. College of Engineering, Kalaburagi, India  
Fazeel Afwan Ahmed, Student, BIT College of Engineering, Bangalore, India  
Ayesha Fatima, Student, Stanley College of Engineering and Technology for Women, Hyderabad, India

**Undergraduate Research Competition sponsored by Daikin Applied - Online**

First Place

ID 50 Determining the Impacts of the Significant Factors on Academic Performance of Junior High School to College Students with Overseas Filipino Worker Parents in Metro Manila  
Carlos Ignacio P. Lugay Jr., PhD, PIE, ASEAN ENGR., UST Faculty of Engineering Faculty Member, Department of Industrial Engineering  
University of Santo Tomas (UST), Manila, Philippines  
Garcia, Emerose Marian G., Solomon, Khyll Gabriel L., Tolosa, Danelle Jana G., Zenarosa and Duane Patrick G., 4th Year Faculty of Engineering Students, Department of Industrial Engineering, University of Santo Tomas (UST), Manila, Philippines

Second Place

ID 15 Lean Service Model Implementation in Fast-Food Restaurants: A Case Study on Reducing Order Cancellations and Improving Inventory Management  
Fabricio Antonio Delgado-Garces, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú  
Jefferson Wilson Jalire-Machicado, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

ID 126 A Review on recent advancements in Friction Stir Additive Manufacturing  
Siripuram Vivek, Korra Nagu, D Swarnalatha, K Madhukar and Y Pavan, 1Department of Mechanical Engineering, B V Raju Institute of Technology, Narsapur, Medak, Telangana 508212, India

Third Place

ID 47 A Predictive Model of BMI Using Factors Affecting Obesity Among Work from Home Adults in The Philippines  
Carlos Ignacio P. Lugay Jr., UST Industrial Engineering Faculty Member, Department of Industrial Engineering, University of Santo Tomas (UST), Manila, Philippines  
Regina Marie D. Belino, Andrea Nicolle Q. Roque, Kret Lemmor E. Santiago and Jose Jemuel T. Taniegra, 4th Year Industrial Engineering Students, Department of Industrial Engineering, University of Santo Tomas (UST), Manila, Philippines

**Human Factors and Ergonomics Competition**

First Place

ID 49 Predicting Factors Affecting Perceived Behavioral Intention in Safety Culture Among Gen Z Filipinos: Integrating Theory of Planned Behavior, Protection Motivation Theory and The Three Domains of Ergonomics  
Yoshiki B. Kurata, Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, Manila, Philippines  
Ronna Charissa A. Cañete, John Timothy P. De Jesus, Anette Grace O. Padrinao and Miguel Joshua F. Quema, Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, Manila, Philippines

Second Place

ID 202 Prevalence of Musculoskeletal Disorders and Postural Risks among Workers in Small Scale Industries – A Case Study  
Gunderaya, Student, Department of Industrial & Production Engineering, P.D.A. College of Engineering, Kalaburagi, India  
Qutubuddin S.M., Associate Professor, P.D.A. College of Engineering, Kalaburagi, India  
Saniya, Student, Department of Industrial & Production Engineering, P.D.A. College of Engineering, Kalaburagi, India  
Laxmi, Student, Department of Industrial & Production Engineering, P.D.A. College of Engineering, Kalaburagi, India  
S.M. Hasanuddin, Student, Methodist College of Engineering and Technology, Hyderabad, India

Third Place

ID 184 Study on Occupational Health Safety and Ergonomics Issues in Small Scale Sweetmeat Industry  
Pooja Aloorkar, Department of Industrial & Production Engineering, P.D.A. College of Engineering, Kalaburagi, India

Qutubuddin S.M., Associate Professor, P.D.A. College of Engineering, Kalaburagi, India  
Saniya, Student, Department of Industrial & Production Engineering, P.D.A. College of Engineering, Kalaburagi, India  
Gunderaya, Student, Department of Industrial & Production Engineering, P.D.A. College of Engineering, Kalaburagi, India  
Laxmi, Student, Department of Industrial & Production Engineering, P.D.A. College of Engineering, Kalaburagi, India  
S.M. Hasanuddin, Student, Methodist College of Engineering and Technology, Hyderabad, India

### **Lean Six Sigma Competition**

#### First Place

ID 124 Operational Excellence Through Lean Six Sigma: Strategies and Best Practices  
Alluri Hema Saiesha, V. Pranay Chandra and Aakash sreeraj, Student, Department of Mechanical Engineering, B V Raju Institute of Technology  
Narsapur 502313, Telangana, India  
Mechiri Sandeep Kumar, Associate Professor, Department of Mechanical Engineering, B V Raju Institute of Technology, Narsapur, Telangana, India

#### Second Place

ID 120 Review of printing parameters on mechanical properties in FDM 3D printing process  
Pundru Bhavana, and Vangari Saikiran , Department of Mechanical Engineering B V Raju Institute of Technology Narsapur, Medak, India  
V. Murali Krishna Professor and Dean of Academics and Department of Mechanical Engineering, B V Raju Institute of Technology Narsapur, Medak, Telangana, India  
R. Muthalagu, Assistant Professor, Department of Mechanical Engineering B V Raju Institute of Technology, Narsapur, Medak, Telangana, India

#### Third Place

ID 129 Quality, Reliability, and Maintenance in Modern Engineering Systems  
Omkar Chouhan and Abhilash Neradi, Student, Department of Mechanical Engineering, B V Raju Institute of Technology, Narsapur, Telangana, India  
Yathamshetti Sriram and Boddu Harish, Student, Department of Electrical and Electronics Engineering, B V Raju Institute of Technology, Narsapur, Telangana, India  
Akshay Kulkarni, Associate Professor, Department of Mechanical Engineering, B V Raju Institute of Technology, Narsapur, Telangana, India

### **Simulation Competition**

#### First Place

ID 13 Monte-Carlo Simulation of a Single Tiered Supply Chain with Total Cost Minimization Objective  
Adarsh Uday, B. Tech Student in Mechanical Engineering, Indian Institute of Technology, Madras, India  
Uday K Jagannathan, Associate Professor, Ramaiah University of Applied Sciences, Bengaluru, India

#### Second Place

ID 119 Evaluating the Static and Dynamic Response of All-Terrain Vehicle Under Varying Conditions  
Vangari Saikiran, Pundru Bhavana and Macha Yeshwanth Reddy, Department of Mechanical Engineering B V Raju Institute of Technology, Narsapur, Medak, India  
V. Murali Krishna, Professor and Dean of Academics, Department of Mechanical Engineering B V Raju Institute of Technology, Narsapur, Medak, Telangana, India  
R. Muthalagu, Assistant Professor, Department of Mechanical Engineering, B V Raju Institute of Technology, Narsapur, Medak, Telangana, India

#### Third Place

ID 51 Analyzing Factors Affecting Retirement Planning Among Private Institutions Employees in the National Capital Region: A Structural Equation Modeling Approach  
Carlos Ignacio P. Lugay Jr., Industrial Engineering Faculty Member, Department of Industrial Engineering, University of Santo Tomas (UST), Manila, Philippines  
Danilo A. Cristobal Jr., Alyssa Yzabel D. Monteagudo, Adrian S. Naval and Brylle Gever E. Vinluan, 4th Year Industrial Engineering Students  
Department of Industrial Engineering, University of Santo Tomas (UST), Manila, Philippines

ID 113 Reducing turnaround time in a clinical laboratory by using a management model utilizing process automation and lean healthcare  
Marcos Diaz Amaro, Almendra Salazar Carrillo and Alberto Flores-Perez, Facultad de Ingeniería, Universidad de Lima, Perú

### **Supply Chain and Logistics Competition sponsored by aThingz**

First place

ID 203 A Review of the Current Integration of Suppliers for Ethical Supply Chains towards Employee Safety, Wellbeing and Occupational Environment in Indian MSMEs  
Tarundeep Singh Bhatia, Lakhwinder Pal Singh, and Arvind Bhardwaj, Department of Industrial and Production Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, India

Second Place

ID 123 Supply Chain and Logistics in Indian Markets; Challenges and Future Scope  
Vaidyam Sai Teja, Borancha Sudhakar, Katta Uday Ram, Thokala Jairam Reddy and Manzoor Hadi, Bachelors of Technology in Mechanical Engineering at BV Raju Institute of Technology, Narsapur, Telangana, India

Third Place

ID 20 Blockchain-enabled logistics and operations management for traceability and sustainability  
Sudarshan Gnanavendan and Jayakrishna Kandasamy, Department of Manufacturing Engineering, School of Mechanical Engineering, VIT University, Vellore Campus, Tamil Nadu, India

ID 98 Social Welfare Supply Chain Modelling leveraging smart contracts  
Satyavolu Rama Vijaya Kumar, Department of Mechanical Engineering, Andhra University College of Engineering, Andhra University (AU), Visakhapatnam, India  
Prof. K. Venkata Subbaiah, Department of Mechanical Engineering, Andhra University College of Engineering, Andhra University (AU), Visakhapatnam, India

### **High School STEM Competition**

First Place

ID 208 Artificial Intelligence Electromyography Prosthetic Hand Control Technique  
Yeonju Lee and Shin Dong Ho, Graduate and Professor, My Paul School, Goesan-gun, Chungcheongbuk-do, Republic of Korea  
Jeongwon Kim, Department of Economics, College of Economics, Nihon University, 3-2 Kanda-Misakicho, 1-chome, Chiyoda-ku, Tokyo, Japan

### **Poster Competition**

First Place

ID 178 Assistive and Smart Assessable Helmet  
Talha Hussain, BV Raju Institute of Technology, Narsapur, India  
Vajrala Lakshman Reddy, B V Raju Institute of Technology, Narsapur, India  
Golla Naresh Kumar, B V Raju Institute of Technology, Narsapur, India  
Artham Murali, B V Raju Institute of Technology, Narsapur, India  
Dhakshayani G, student, B V Raju Institute of Technology, Narsapur, India

Second Place

ID 70 Comparison of nutritional screening tools and assessment tools to diagnosis of malnutrition in critically ill patients.  
Swathi Shavva, Research Scholar-Best Innovation University- Food Science and Nutrition -2022 batch, Andrapradesh, Ananthapur, Senior clinical dietician, Continental Hospitals, Hyderabad and Aiswarya Raj PR Chief clinical dietician, Continental Hospitals, Hyderabad

Third Place

ID 96 Feasibility Study on Integration of Cost-Effective IoT in a BVRIT Nanogrid System for Real-Time Energy Data Analytics  
V S B Chaitanya Duvvury, Assistant Professor, Department of EEE, B V Raju Institute of Technology, Narsapur, Medak, India



4<sup>th</sup> Indian International Conference on  
**Industrial Engineering and  
Operations Management**  
November 7-9, 2024, Hyderabad, India  
Host and Venue: JNTUH, Hyderabad



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