



PACE
INSTITUTE OF TECHNOLOGY & TECHNOLOGY
AUTONOMOUS



PACE *Chronicle*

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PACE AT A GLANCE

PACE Institute of Technology and Sciences (PACE ITS) was established under Srinivasa Education Society in 2007 at Valluru village, near Ongole. It has been running successfully since the academic year 2008-09. PACE, being an NRI's project is committed to provide a world class technical education. PACE Institute of Technology and Sciences is permanently affiliated to JNTUK, Kakinada and approved by AICTE, New Delhi. The institution was accredited by "NBA" and NAAC with "A" grade. The institution has got the AUTONOMOUS status in 2018. The college is situated in a panoramic area of 14 acres with Wi-Fi enabled infrastructure, well ventilated classrooms and well equipped laboratories. As a provision for physical fitness, the college also has a sports field and indoor stadium.

This institution was started by Dr. Maddisetty Venugopal Rao, Chairman and Dr. Maddisetty Sridhar, Secretary and Correspondent, with a modest strength of 240 and now, the institute has an intake of 1000+ students. The college offers B. Tech Degree in ECE, CSE, CSE (IoT and Cyber Security), CSIT, AI & ML, AI & DS, EEE, IT, Mechanical, Electronics Engineering (VLSI Design and Technology) and Civil. The college also offers courses like MBA, M. Tech and Diploma.

Vision

To impart futuristic technical education transforming the students technically superior, ethically strong, self-disciplined to serve for the nation building as a valuable resource.

Mission

- To inculcate quality education by implementing innovative teaching-learning methods and state-of-the-art facilities.
- To enrich the intellectual know-how, credibility and integrity of the students to necessitate industry.
- To transform the students as scholarly and influential leaders in engineering education, and to develop human power with creativity, advanced technology and passion for the betterment of future nation.

CONGRATULATIONS

PACE
INSTITUTE OF TECHNOLOGY & SCIENCES
AUTONOMOUS

Ms. P. GNANA PRASUNA KAVYA SRI
Roll No: 21KQIA0525-Dept. of CSE

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PACE SIGNS MoU WITH UTeM - MALAYSIAN GOVERNMENT UNIVERSITY



On April 12, 2025, a significant media briefing announced the signing of a Memorandum of Understanding (MoU) between PACE Institute of Technology and Sciences and Universiti Teknikal Malaysia Melaka (UTeM), Malaysian Government University. Dr. Sridhar Maddisetty, Secretary and Correspondent of PACE, and Dr. G.V.K. Murthy, Principal, attended the ceremony at UTeM, Malaysia, where they were

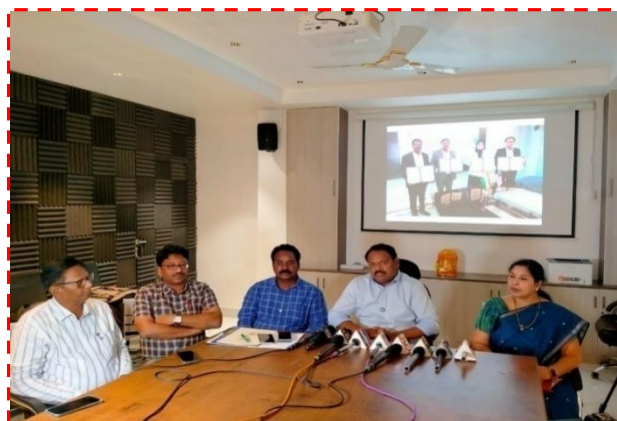
warmly received by Vice Chancellor Dr. Massila Binti Kamalrudin, Dean Dr. Muhammad Hafidz Fazli Bin, and Senior Lecturer Dr. Warusia Yassin. Their hospitality highlighted the growing camaraderie between the two institutions. The MoU represents a strategic alliance to promote **academic exchange, joint research, and technological collaboration**. The partnership aims to foster innovation through initiatives such as student mobility programs, collaborative research, faculty capacity building, and international seminars. Additionally, plans include exploring dual degree programs and technology incubation, encouraging entrepreneurship, and expanding research opportunities. A unique aspect of this collaboration is providing select PACE students with the chance to undertake projects in UTeM, Malaysia, offering invaluable international exposure and practical experience. This partnership underscores a shared vision of advancing academic excellence, technological innovation, and global citizenship. Participating in the event were key leaders from PACE, including Dr. C.V. Subba Rao, Dean of Academics, Dr. R. Veeranjanyulu, Dean of Students' Affairs, and Ms. K. Roopa Akkesh, Dean of Training and Placements whose presence reinforced the importance of this milestone in fostering academic and research cooperation between the two prestigious institutions.



Dr. Sridhar Maddisetty signed the MoU with UTeM.



Dr. Sridhar Maddisetty and Dr. G.V.K. Murthy were warmly received by Vice Chancellor Dr. Massila Binti Kamalrudin, Dean Dr. Muhammad Hafidz Fazli Bin, and Senior Lecturer Dr. Warusia Yassin.



An MoU with iQua.ai



Dr. Sridhar Maddisetty signed the MoU with iQua.ai

PACE Institute of Technology and Sciences, Ongole, has formally entered into a strategic Memorandum of Understanding (MoU) with iQua.ai – *Let the Job Find You*. This visionary alliance is poised to revolutionize the paradigms of career preparation for our students, fostering innovative approaches to skill development and employability. The MoU was formally enacted through a meeting with Mr. Venkat Machavolu, Founder and CEO of iQuadra Information Services LLC, who engaged with our Honorable Secretary and Correspondent, Dr. Maddisetty Sridhar. The signing ceremony was further graced by the presence of Principal, Dr. G. V. K. Murthy, and Ms. K. Roopa Akkesh, Dean of Training and Placements, reflecting the institution's commitment to this transformative initiative. This collaboration is set to provide our students with unprecedented access to AI-powered, personalized interview simulations and detailed performance analytics. These sophisticated tools will equip them with data-driven insights into their skillsets, enabling a smarter, more targeted approach to interview preparation, skill enhancement, and self-assessment. Such a partnership signifies a progressive stride towards aligning our training infrastructure with industry expectations, ensuring that our students are not merely academically proficient but also imbued with the confidence, agility, and readiness demanded by the evolving employment landscape. This alliance underscores our unwavering dedication to fostering a future-ready workforce, capable of excelling in competitive global opportunities.

ADP INDIA ANNUAL CAMPUS MEET 2025

Ms. K. Roopa Akkesh, Dean of Training and Placements, had the esteemed opportunity to participate in **Parichay 2025**, ADP India's premier Annual Campus Connect event, exclusively for Training and Placement Officers nationwide. This enriching experience offered valuable insights into ADP's dynamic culture, employee-centric practices, and leadership ethos. The Leadership Talk was particularly inspiring, with seasoned leaders sharing meaningful perspectives on growth and resilience. An



engaging highlight was *Coffee with Vijay*, a candid, interactive session that blended learning with camaraderie. The event included team-building and problem-solving activities, fostering a strong sense of community. Hearing stories of young ADP peers-former students mentored by TPOs-now thriving as professionals was truly motivating. The CSR initiative *Tarang* also stood out, contributing significantly to community development, education, and women's empowerment, exemplifying ADP's social responsibility. Ms. Roopa expressed her gratitude for the enriching experience and praised the ADP HR team for their impeccable coordination in orchestrating this impactful engagement. In recognition of her inspiring participation, Dr. Maddisetty Sridhar, Secretary and Correspondent of the college; Dr. G.V.K. Murthy, the Principal; Dr. C.V. Subba Rao, Dean of Academics; and R. Veeranjanyulu, Dean of Students' Affairs, along with the entire staff, extended their hearty congratulations to Ms. Roopa for this distinguished achievement.



ELECTRONICS AND COMMUNICATION ENGINEERING

Research Article Publication

Dr. Guguloth Erna and colleagues have developed an advanced FPGA-based hybrid ECG compression and decompression method aimed at improving data storage and power efficiency in portable health monitoring systems. Published on May 12, 2025, in the *Journal of Circuits, Systems and Computers*, their technique employs lossless compression techniques such as run-length coding and Golomb-Rice encoding, combined with adaptive linear prediction strategies to minimize latency and storage

requirements. The system features a VLSI-based hybrid design that reduces transmitted ECG data, with a four-bit compression stream used for decompression through a digital filter implemented on the Vertex-5 FPGA, using eight multipliers and eight adders. This innovative approach significantly enhances the compression ratio, enabling longer battery life and more efficient ECG data management in wearable health devices. This remarkable achievement was formally recognized and appreciated by Dr. Maddisetty Sridhar, Secretary and Correspondent of the college; Dr. G.V.K. Murthy, the Principal; Dr. C.V. Subba Rao, Dean of Academics; and R. Veeranjanyulu, Dean of Students' Affairs. Additionally, Dr. M. Appa Rao, Head of the Department of Electronics and Communication Engineering, extended his congratulations to Dr. Guguloth Erna for this outstanding accomplishment.

(<https://www.sciencedirect.com/science/article/pii/S2590123025011120>

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=KVdvoUYAAAAJ&citation_for_view=KVdvoUYAAAAJ:Tyk-4Ss8FVUC)



Research Article Publication

Dr. D. Anil Kumar, Associate Professor in the Department of Electronics and Communication Engineering has distinguished himself through the successful publication of a pioneering research article in the esteemed Q1 journal, IEEE Access (SCIE). The manuscript, titled "Acute Respiratory Infections Identification With Cough Sounds and Overlapping Patch Modulated Vision Transformers," exemplifies interdisciplinary innovation by synergizing auditory analysis and advanced vision transformer architectures to address a vital healthcare imperative—early detection of acute respiratory infections through artificial intelligence. This groundbreaking contribution has garnered commendation from the college administration, including Dr. Maddisetty Sridhar, Secretary and Correspondent; Dr. G.V.K. Murthy, Principal; Dr. C.V. Subba Rao, Dean of Academics; and R. Veeranjanyulu, Dean of Students' Affairs. Additionally, Dr. M. Appa Rao, Head of the Department of Electronics and Communication Engineering, extended his greetings to Dr. Kumar in recognition of this commendable achievement.



Research Article Publication

Dr. Gugulothu Erna, Professor in the Department of Electronics and Communication Engineering at PACE Institute of Technology and Sciences, has made a significant contribution to research with his publication titled "FPGA Implementation of High Throughput Encoder and Decoder Design of Lossless Canonical Huffman Machine" in the prestigious journal *Results in Engineering* (Elsevier), which boasts an impressive Impact Factor of 6.0 and is ranked in Quartile Q1. This remarkable achievement was formally recognized and appreciated by Dr. Maddisetty Sridhar, Secretary and Correspondent of the college; Dr. G.V.K. Murthy, the Principal; Dr. C.V. Subba Rao, Dean of Academics; and R. Veeranjanyulu, Dean of Students' Affairs. Additionally, Dr. M. Appa Rao, Head of the Department of Electronics and Communication Engineering, extended his congratulations to Dr. Gugulothu Erna for this outstanding accomplishment.



FDPs



Dr. D. Anil Kumar, Associate Professor in the Department of Electronics and Communication Engineering, successfully participated in and completed a comprehensive five-day Faculty Development Programme (FDP) on AICTE IDEA Lab Faculty Co-Coordination, held at K. S. Rangasamy College of Technology, Tiruchengode. This FDP served as a dynamic platform for the dissemination of cutting-edge knowledge, fostering professional networking, and exploring prospective collaborations and innovations in the realm of intelligent laboratories and advanced technologies. The programme included immersive and hands-on training modules covering:

- 3D Printing Technologies
- 3D Scanning Solutions
- Laser Cutting Equipment
- PCB Design, Fabrication, and Programming

These intensive sessions proved to be highly enlightening, equipping participants with practical insights and technical expertise crucial for establishing and enhancing the infrastructure of the upcoming AICTE IDEA Lab at PACE Institute of Technology and Sciences. Dr. Kumar expressed his profound gratitude to our Honorable Secretary and Correspondent, Dr. M. Sridhar, for his unwavering support and encouragement throughout this endeavor. He also sincerely appreciated our Principal, Dr. G. V. K. Murthy, for his ongoing motivation and endorsement of the IDEA Lab initiative. Additionally, he extended his heartfelt thanks to our IDEA Lab Coordinator, Dr. M. Venkateswara Rao, and to all the Deans for their steadfast guidance and support, which have been instrumental in steering this project towards success.

- Dr. M. Appa Rao, a Professor and Head of the Department of Electronics and Communication Engineering at PACE Institute of Technology & Sciences, Ongole, participated in a one week Faculty Development Program on Cutting-Edge Technology: **Internet of Things (IoT) and its Applications in Electrical Engineering** (FDP4CET-01). He successfully completed the program during May 19-23, 2025, and secured a score of 9/10.
- Dr. G. Erna, an Associate Professor in the ECE Department at PACE Institute of Technology & Sciences, Ongole, participated in a one week Faculty Development Program on Cutting-Edge Technology: **Internet of Things (IoT) and its Applications in Electrical Engineering** (FDP4CET-01). He successfully completed the program during May 19-23, 2025, and secured a score of 10/10.
- Dr. K. Vijay Chandra, an Associate Professor in the ECE Department at PACE Institute of Technology & Sciences, Ongole, participated in a one week Faculty Development Program on Cutting-Edge Technology: **Internet of Things (IoT) and its Applications in Electrical Engineering** (FDP4CET-01). He successfully completed the program during May 19-23, 2025, and secured a score of 9/10.
- Mr. S. Ch. Kantha Rao, an Assistant Professor in the ECE Department at PACE Institute of Technology & Sciences, Ongole, participated in a one week Faculty Development Program on Cutting-Edge Technology: **Internet of Things (IoT) and its Applications in Electrical Engineering** (FDP4CET-01). He successfully completed the program during May 19-23, 2025, and secured a score of 9/10.
- Ms. Malathi Veera Venakata Lakshmi Manasa Kalturi, an Assistant Professor in the ECE Department at PACE Institute of Technology & Sciences, Ongole, participated in a one week Faculty Development Program on Cutting-Edge Technology: **Internet of Things (IoT) and its Applications in Electrical Engineering** (FDP4CET-01). She successfully completed the program during May 19-23, 2025, and secured a score of 9/10.
- Ms. K. Lavanya, an Assistant Professor in the ECE Department at PACE Institute of Technology & Sciences, Ongole, participated in a one week Faculty Development Program on Cutting-Edge Technology: **Internet of Things (IoT) and its Applications in Electrical Engineering** (FDP4CET-01). She successfully completed the program during May 19-23, 2025, and secured a score of 10/10.

- Ms.D. K. Kavitha, an Assistant Professorin the ECE Department at PACE Institute of Technology & Sciences, Ongole, participated in a one week Faculty Development Program on Cutting-Edge Technology: **Internet of Things (IoT) and its Applications in Electrical Engineering** (FDP4CET-01). She successfully completed the program during May 19-23, 2025, and secured a score of 9/10.
- Ms. B. Vijaya, an Assistant Professorin the ECE Department at PACE Institute of Technology & Sciences, Ongole, participated in a one week Faculty Development Program on Cutting-Edge Technology: **Internet of Things (IoT) and its Applications in Electrical Engineering** (FDP4CET-01). She successfully completed the program during May 19-23, 2025, and secured a score of 9/10.
- Ms. Ch. Rajani, an Assistant Professorin the ECE Department at PACE Institute of Technology & Sciences, Ongole, participated in a one week Faculty Development Program on Cutting-Edge Technology: **Internet of Things (IoT) and its Applications in Electrical Engineering** (FDP4CET-01). She successfully completed the program during May 19-23, 2025, and secured a score of 9/10.

ELECTRICAL AND ELECTRONICS ENGINEERING

FACULTY DEVELOPMENT PROGRAM

The Department of Electrical and Electronics Engineering at University College of Engineering, JNTUK, Kakinada, in collaboration with the Department of Electrical and Electronics Engineering at PACE Institute of Technology and Sciences, successfully orchestrated a comprehensive five-day Faculty Development Program on the theme "**IoT**



and Its Applications in Electrical Engineering" held over a span of five days at the esteemed PACE Engineering College. A diverse cohort of fifty faculty members from various engineering colleges affiliated with JNTUK actively participated in this scholarly endeavor. During the inaugural address, College Secretary and Correspondent Dr. Maddisetty Sridhar emphasized the imperative for academicians to remain abreast of industry-relevant tools and cutting-edge technologies. He remarked, "*It is vital for educators to engage with industry-aligned innovations, as such initiatives bridge the perennial gap between academia and industry, thereby fostering*

the development of future-ready engineers."In his address, the College Principal, Dr. G.V.K. Murthy, articulated, "This Faculty Development Programme signifies a strategic stride towards equipping our faculty with the acumen necessary to spearhead innovations in pedagogy and research. Such initiatives are pivotal in ensuring that our institutions continue to lead at the forefront of technological excellence."Professor Dr. K. Venkata Reddy, Coordinator of Electrical and Electronics Engineering at UCE, JNTUK, expressed his appreciation for the enthusiastic participation, stating, "The remarkable turnout and engagement of the participants are truly motivating. Our key objective with this faculty development initiative is to furnish attendees with a profound understanding of the IoT framework and its practical applications within the electrical engineering paradigm."Dr. P. Subbarao, Director of Faculty Development, highlighted the interdisciplinary learning fostered through the program, noting, "This initiative has catalyzed cross-disciplinary collaboration, and we eagerly anticipate further such synergistic endeavors in the future."On the concluding day, the program coordinators and all participants reconvened to reflect on the successful execution and outcomes of the training module.

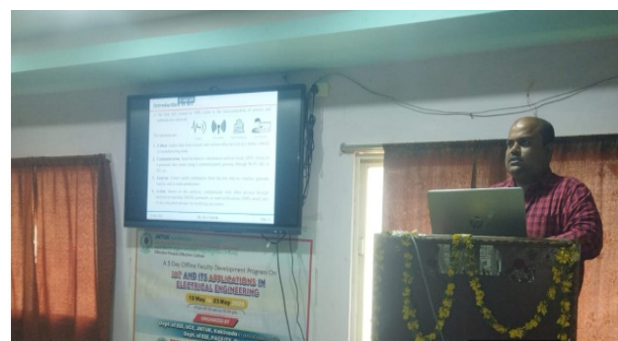
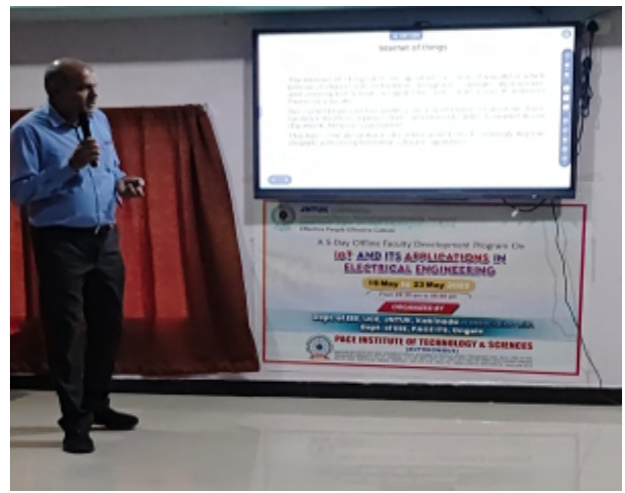
Faculty from JNTUK Engineering Colleges in This Scholarly Event.



FDP Participants



Dr. G.V.K. Murthy is Addressing the FDP Attendees



PACE Officials Felicitated the Resource Persons

CSE (IoT & CSBT)

- Dr. Srikanth Byrapuneni, Associate Professor in the IoT department, has successfully completed the "**Privacy and Security in Online Social Media**" course offered by NPTEL, funded by the Ministry of Education, Government of India. She was awarded this esteemed certification upon achieving a consolidated score of 78%, demonstrating excellent performance in online assignments (25/25) and the proctored exam (53.5/75).
- Dr. Srikanth Byrapuneni, Associate Professor in the IoT department at PACE Institute of Technology & Sciences, Ongole, participated in a one week Faculty Development Program on Cutting-Edge Technology: **Internet of Things (IoT) and its Applications in Electrical Engineering** (FDP4CET-01). He successfully completed the program during May 19-23, 2025, and secured a score of 7/10.
- Mr. Sunil Nalamala, Assistant Professor in the IoT department, has successfully completed the "**Introduction to Internet of Things**" course offered by NPTEL, funded by the Ministry of Education, Government of India. He was awarded this esteemed certification upon achieving a consolidated score of 60%, demonstrating excellent performance in online assignments (23.97/25) and the proctored exam (36/75).
- Ms. Kolakaluri Anuradha, Assistant Professor in the IoT department, has successfully completed the "**Privacy and Security in Online Social Media**" course offered by NPTEL, funded by the Ministry of Education, Government of India. She was awarded this esteemed certification upon achieving a consolidated score of 58%, demonstrating excellent performance in online assignments (25/25) and the proctored exam (33.26/75).
- Ms. Chaitanya Bharathi Meesala, Assistant Professor in the IoT department, has successfully completed the "**Privacy and Security in Online Social Media**" course offered by NPTEL, funded by the Ministry of Education, Government of India. She was awarded this esteemed certification upon achieving a consolidated score of 60%.
- Ms. Veluri Swarna, Assistant Professor in the IoT department, has successfully completed the "**Privacy and Security in Online Social Media**" course offered by NPTEL, funded by the Ministry of Education, Government of India. She was awarded this esteemed certification upon achieving a consolidated score of 67%.

- Dr. Srikanth Byrapuneni, Associate Professor in the IoT department at PACE Institute of Technology & Sciences, Ongole, participated in a one week Faculty Development Program on Cutting-Edge Technology: Internet of Things (IoT) and its Applications in Electrical Engineering (FDP4CET-01). He successfully completed the program during May 19-23, 2025, and secured a score of 7/10.
- Mr. Sunil Nalamala, Assistant Professor in the IoT department at PACE Institute of Technology & Sciences, Ongole, participated in a one week Faculty Development Program on Cutting-Edge Technology: Internet of Things (IoT) and its Applications in Electrical Engineering (FDP4CET-01). He successfully completed the program during May 19-23, 2025, and secured a score of 9/10.

HUMANITIES AND SCIENCES

FDP

Ms. M. Sandhya Rani, an Assistant Professor, participated in a comprehensive five-day Faculty Development Program (FDP) on **AI Agents**, organized collaboratively by the Commissionerate of Collegiate Education (CCE), Government of Andhra Pradesh, and ExcelR Edtech Pvt. Ltd., held from 12th to 16th May 2025.

NATIONAL SERVICE SCHEME (NSS) & ISR CELL - OPERATION SINDOOR

On May 16, 2025, 300 volunteers from the NSS Unit and six members of the staff of PACE Institute of Engineering & Technology actively participated in the Operation Sindoor Rally, commencing from Prakasam Bhavan and culminating at the Addanki Bus Stand in Ongole. Organized by the Vasavi Lions Club and other NGOs, the rally aimed to demonstrate support for the Indian Army, which successfully completed Operation Sindoor-a crucial mission in countering terrorism. The event also served to foster patriotism among students and raise awareness about national security. College Secretary & Correspondent Dr. Maddisetty Sridhar expressed his pride in being part of this initiative, emphasizing its importance in nurturing patriotic citizens. The Principal, Dr. G.V.K. Murthy, along with Dean of Academics, Dr. C.V. Subba Rao, Dean of Students' Affairs, Dr. R. Veeranjanyulu, and other deans and HODs, commended the dedication and participation of students and staff members. Their collective efforts underscored a strong commitment to national service and security, reinforcing the college's mission to foster responsible and patriotic

citizenship. The seamless execution of this impactful event was meticulously coordinated by Dr. Mallikarjuna Rao, whose dedicated efforts ensured a profound and memorable experience for all participants.



*NSS volunteers and staff from PACE participated in the **Operation Sindoor** Rally*





NATIONAL SERVICE SCHEME (NSS) - SWARNA ANDHRA SWACHH ANDHRA

On 16th May 2025, the NSS Unit of PACE Institute of Technology and Sciences organized the **Swarna Andhra Swachh Andhra** initiative at the college premises. This event marked a significant step towards fostering cleanliness, hygiene, and environmental responsibility among students. 120 students and two members of the staff from PACE engaged in identifying wastewater points, discussing water wastage, and proposing reduction strategies, aligning with the objectives of the Swachh Andhra Corporation-an organization established by the Andhra Pradesh government to enhance sanitation and waste management across the state. In conjunction with the broader "**Swarna Andhra - Swachh Andhra**" campaign, which will observe "**Swachh Andhra Day**" on May 17, 2025, the program emphasized themes such as "**Beat the Heat**" to promote heat resilience and sustainability. College authorities, including Secretary & Correspondent Dr. Maddisetty Sridhar, expressed his appreciation for the diligent efforts of the organizing team, highlighting the program's role in shaping a cleaner, more sustainable future. The principal, Dr. G.V.K. Murthy, alongside deans and HODs, commended the active participation of students and staff, reinforcing the collective



commitment to environmental stewardship. Esteemed guests, including Dr. M. Sridhar, Dr. G.V.K. Murthy, Dr. C. V. Subba Rao, Dr. R. Veeranjanyulu, and Mr. M. Ramanayya, Headmaster, ZPHS, Valluru, alongside other faculty members, attended this impactful event, underscoring its importance in community outreach and awareness.



PHYSICAL EDUCATION - JNTUK PLAYER CERTIFICATIONS

PACE's elite sports students have achieved a significant milestone by being awarded their prestigious JNTUK University Player Certificates, conferred in a distinguished ceremony by the Honourable Vice-Chancellor, Prof. C.S.R.K. Prasad. This remarkable accomplishment underscores their dedication, discipline, and excellence in athletic pursuits, exemplifying the university's commitment to fostering holistic development among its students. This momentous occasion has been met with widespread



acclaim and heartfelt felicitations from the college's esteemed leadership and faculty members. Dr. Maddisetty Sridhar, Secretary and Correspondent; Dr. G.V.K. Murthy, Principal; Dr. C.V. Subba Rao, Dean of Academics; R. Veeranjanyulu, Dean of Students' Affairs; along with all Heads of Departments, dedicated staff members, and the Physical Education faculty, contributed to the celebrations with their commendations and warm regards. Mr. I. Madhusudhana Rao, the Physical Director, specifically extended his hearty congratulations to the students, recognizing their perseverance and sporting spirit. The collective recognition and encouragement from various stakeholders underscore the importance of nurturing well-rounded individuals who excel both academically and through their extracurricular achievements.

University Sport's Day Celebration's



PACE's Sports Students with their JNTUK University Player Certificates







CHAIRMAN

Dr. M. Venugopal Rao



SECRETARY & CORRESPONDENT

Dr. M. Sridhar



PRINCIPAL

Dr. G. V. K. Murthy

THANK YOU

Honorary Advisors

Dr. G. V. K. Murthy, Principal

Chief Editor

Mr. Ratna Raju Chegudi
Assistant Professor & Softskills Trainer
Training and Placements Cell