



GOVERNMENT OF ANDHRAPRADESH DEPARTMENT OF
TECHNICAL EDUCATION

GOVERNMENT POLYTECHNIC .KAMALAPURAM-(199)

GRANDLY PRESENTING TECHWAVE-2024

(Turning Circuits into Smiles Where electrical & electronics Dance to the Rhythm)



GOVERNMENT POLYTECHNIC
KAMALAPURAM, YSR KADAPA DIST., A.P.

Institute Innovation Cell Proudly Presents
TECH WAVE-2024
.....Turning Circuits into Smiles 😊😊😊
Where Electrical & Electronics Dance to the Rhythm

Event on
03rd February 2024
(Saturday)

Prizes Worth upto Rs.5,000/-

INNOVATION
CREATIVITY, SOLUTION, DEVELOPMENT, ECONOMY, MARKET, SKILLS, RESEARCH, SUPPORT, BUSINESS, MEASURES, SOURCE, IDEAS, CUSTOMER, CYCLE, INPUT, SOLUTION, DEVELOPMENT, ECONOMY, MARKET, SKILLS, RESEARCH, SUPPORT, BUSINESS, MEASURES, SOURCE, IDEAS, CUSTOMER, CYCLE, INPUT

Dr. B. Venkateswarlu Principal(FAC) & HEES	Smt. S.Lalitha HECES	Sri B. Rama Krishna Reddy Sr. Lec in ECE	Sri S.Vijay Kumar Sharma Sr. Lec in EEE	Dr. P. Surendra Reddy HGS (I/C)	Sri. K. Munisekhar Reddy Convenor	Event Coordinators Staff & Students of DECE & DEEE
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For More Details Contact:
9160906936, 9652585258 (DECE), 9441124124(DEEE), 9949929653(H&S)

"Tech Wave 2024: Unleashing Innovation in the Polytechnic Cosmos"

"When an idea exclusively occupies the mind, it is transformed into an actual physical or mental state."

By Swami Vivekananda

Objective:

Tech Wave -2024 is an immersive technological extravaganza designed to ignite the passion for innovation among polytechnic students. This dynamic tech fest serves as a platform for students to explore, learn, and showcase their inventive prowess in various disciplines of science and technology. The event aims to foster a culture of curiosity, collaboration, and creativity, propelling students into the forefront of the rapidly evolving technological landscape.

Tech Wave- 2024 will feature captivating exhibitions that showcase electronic projects and prototypes developed by polytechnic students. From robotics and artificial intelligence to sustainable technologies and smart solutions, participants will have the opportunity to witness and interact with groundbreaking innovations.

Tech Wave-2024 will serve as a bridge between students and potential employers. Industry partners and recruiters will have the chance to interact with talented polytechnic students, offering them insights into career opportunities and internship programs. Beyond technology, Tech Wave-2024 will foster a vibrant and inclusive atmosphere. Fun activities, gaming zones, and entertainment segments will ensure that participants enjoy a well-rounded experience, making the event not just educational but also memorable.

Tech Wave- 2024 invites all polytechnic and high school students to join this transformative journey, where ideas converge, innovation thrives, and the future of technology is shaped. Together, let's explore the limitless possibilities that the polytechnic cosmos holds for aspiring technologists.

GPT KAMALAPURAM.....

➤ *I hear and I forget. I see and I remember. I do and I understand.*



➤ *Tech wave -2024 Flyer inauguration by Principal, HOD's, staff and students @GPT Kamalapuram*



రేపు టెక్వేవ్-2024

సాంకేతిక ప్రదర్శన

కమలాపురం : స్థానిక ప్రభుత్వ పాలిటెక్నిక్ కళాశాలలో శనివారం టెక్వేవ్-2024 సాంకేతిక ప్రదర్శన నిర్వహిస్తున్నట్లు పాలిటెక్నిక్ కళాశాల ప్రిన్సిపాల్ బి.వెంకటేశ్వర్లు గురువారం ఒక ప్రకటనలో తెలిపారు. కళాశాలలోని ఇన్నోవేషన్ సెల్ ఆధ్వర్యంలో లైవ్ డిప్లమో ప్రాజెక్టులు, సమాజానికి ఉపయోగపడే నూతన ఆవిష్కరణల సాంకేతిక ప్రదర్శన టెక్వేవ్-2024ను ఏర్పాటు చేస్తున్నట్లు ఆయన తెలిపారు. కమలాపురం పట్టణంలో మొదటి సారిగా ఇలాంటి ప్రదర్శన ఏర్పాటు చేస్తున్నామని ఈ అవకాశాన్ని పరిసర ప్రాంత పాఠశాలల విద్యార్థినీ విద్యార్థులు ఉపయోగించుకుని డిప్లమో విద్యపైన అవగాహన పెంచుకోవాలన్నారు. ఉదయం 10 గంటల నుంచి సాయంత్రం 4 గంటల వరకు సాంకేతిక ప్రదర్శన సందర్శించాల్సిందిగా ప్రిన్సిపాల్ తెలిపారు. మంచి ప్రతిభ కనబరిచిన ప్రాజెక్టులకు బహుమతులు అందజేస్తామన్నారు.

➤ VISITED NEARBY 16 ZP HIGH SCHOOLS, 17 PRIVATE HIGH SCHOOLS AND AROUND 1200 MEMEBRES OF TENTH CLASS STUDENTS AND INVITED THEM TO VIST INDUSTRY 4.0 PROJECTS WHICH HELP THEM TO UPSKILLING AND CREATE BETTER EMPLOYMENT OPPORTUNITIES THROUGH DIPLOMA EDUCATION.



➤ Inviting students and staff of various nearby schools in kamalapuram for the prestigious TECHWAVE-2024 Technical Exhibition

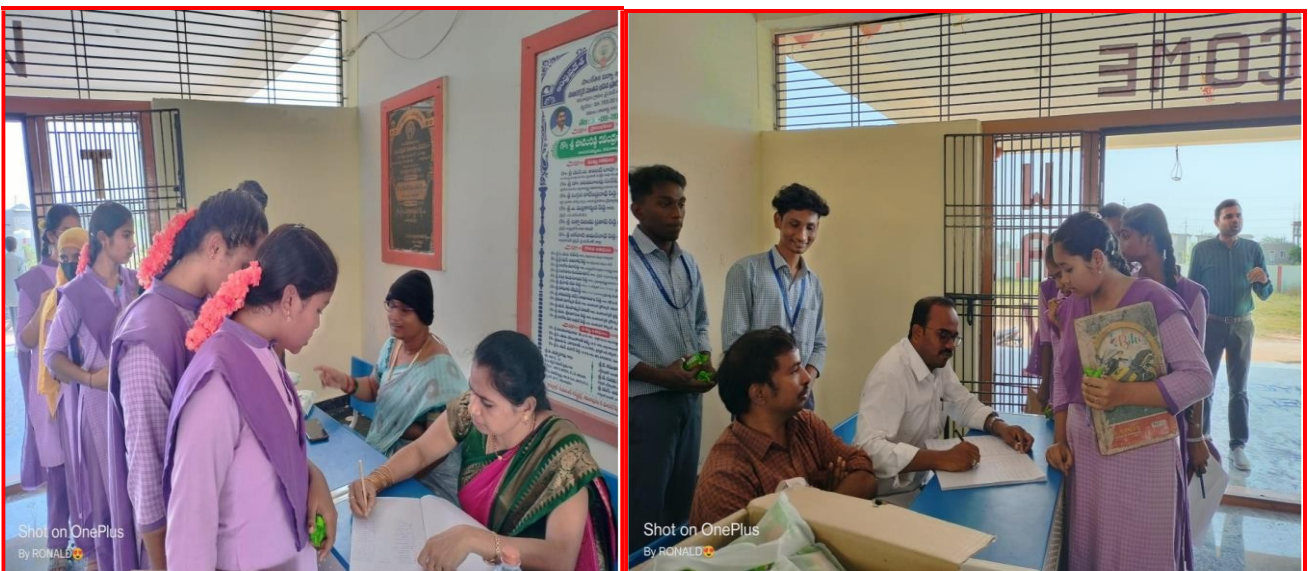


➤ Inauguration ceremony and Lighting of Lamp by **Electronic Blue Tooth Based App** for TECH WAVE-2024 by the distinguished guests by Sri.M.V.Ch Jagadeeswarudu garu principal, Gpt Proddatur and Sri.P.Sivasankar garu, Principal Gpt Rayachoty, along with Sri.K.Manjunath garu HEES Gpt proddatur.

➤ REGISTRATIONS FOR TECH WAVE-2024



REGISTRATIONS FOR TECH WAVE-2024 AROUND 750 STUDENTS ACROSS VARIOUS SCHOOLS AND AROUND 80 DELEGATES FROM VARIOUS POLYTECHNICS ALONG WITH DIGNATORIES AND MEDIA PERSONS HAVE ATTENDED THE EVENT.





- Inauguration of electronic gaming project **Robot War** (Alien vs Predator) an application of NRFL Transiever by the honorable guest's.



- Explaining the role of **Smart Helmet** in preventing Accidents and saving precious lives by 1st year EEE students.

"Enter the arena of steel and circuits, where innovation clashes with mechanics."



- **AUTOMATIC FACE MASK DETECTION SYSTEM TO CONTAIN CONTAGIOUS INFECTIONS AND PANDEMICS LIKE Covid-19**



- **EXPLAINING ARTIFICIAL INTELLIGENCE (AI) BASED *ROBOT* FOR OBJECT DETECTION Useful in MINING AND GEOLOGY**

"Artificial Intelligence is the only place where '404 Error' is an acceptable excuse for a brain freeze."



➤ **ELABORATING ENSURING SAFETY OF LINEMEN PROJECT AT WORK PLACE IN ELETRICITY DEPARTMENT USING BLUETOOTH AND ANDROID APP TO THE DIGNATORIES**



➤ **IOT BASED SMART HOME AUTOMATION USING MIT APP INVENTOR, FIRE BASE, AND ESP8266 MODULE.**



"Why did the computer go to therapy? It had too many bytes of emotional baggage and couldn't



- **DEMONSTRATION OF SMART WATER DISTRIBUTION SYSTEM USING RFID TECHNOLOGY BY 1ST YEAR ECE STUDENTS**



- **DEMONSTATION OF ELECTRONIC BASED GAME (CONCENTRATION TEST) FOR IMPROVEMENT OF FOCUS AND CONCENTRATION AMONG CHILDREN (APPLICATION OF CLOSED LOOP)**



"Working with a closed loop is like arguing with a GPS – it keeps insisting you're wrong, but in the end, it just wants to keep you on the right path, even if it takes a few detours!"



➤ **DEMONSTRATING AUTOMATIC WATER TANK LEVEL DETECTION SYSTEM BY 1ST YEAR DEEE STUDENTS**



➤ **DESCRIBING ENERGY EFFICIENT STREET LIGHTING SYSTEM USING IR SENSORS –A POWER SAVING INITIATIVE FOR SUSTAINABLE ENERGY MANAGEMENT.**



"When your water tank hosts its own version of a splash party: 'Overflowing with joy – because sometimes, tanks just can't contain their liquid excitement!'"



➤ **ADVANCED SMART VOTING SYSTEM TO CURB ELECTORAL MALPRACTICES DURING ELECTIONS BY MD ISHAQ A 2NDECE STUDENT.**



➤ **EXPLAINING ADVANCED MULTILEVEL SECURITY SYSTEM TO PREVENT BURGLARY AND THEFTS to PRINCIPAL GOVT POLYTECHNIC, PRODDUTUR.**



"Security is not just a lock and key; it's the silent guardian of trust, the digital bouncer at the entrance of our virtual worlds, ensuring that only the right codes get past the velvet rope of



➤ **ENUMERATING THE MERITS OF QR CODE BASED MEDICAL ASSISTANCE SYSTEM BY 2ND YEAR EC STUDENTS**



➤ **EXPLAINING *LOW COST SANITIZATION CHAMBER USING IR (UV RAYS)* TO REMOVE THE BACTERIA ON THE OBJECTS TO FACULTY OF GPW KADAPA**



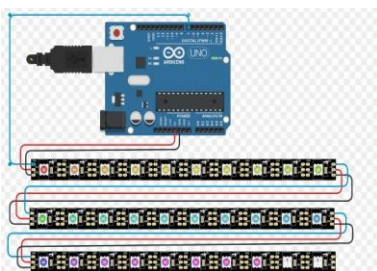
"Sanitizing surfaces is like giving UV rays a spa day – it's the VIP treatment for the invisible guests, leaving germs to retreat like they just got an eviction notice from the sun's sanitation squad!"



➤ DESCRIBING **ELECTRONIC LINE MATCHING GAME** TO THE TEACHERS OF GURUKUL RESIDENTIAL SCHOOL KAMALAPURAM



➤ **LED BASED F1 RACE** –AN ELECTRONIC GAME IS BEING PLAYED BY THE STUDENTS OF VEDAS SCHOOL KAMALAPURAM.



"Electronic racing games"

"where pixels scream, circuits hum, and adrenaline races at the speed of a digital heartbeat. Buckle up for a ride where victory is measured in pixels per second, and the only finish line is the boundary of endless excitement."



➤ **DEMONSTRATION OF LASER SHOOTING USING LDR TO THE STUDENTS OF VEDAS SCHOOL KAMALAPURAM.**



➤ **EXPLAINING THE NEED OF SURVEILLANCE ROBOT (APPLICATION OF ESP 32 CAM) TO KEEP AN EYE ON UNMANNED PLACES TO THE STAFF OF VEDAS SCHOOL KAMALAPURAM.**



"Life is a dance between light and shadows. In the world of circuits, an LDR gracefully waltzes between brightness and obscurity, a silent poet capturing the essence of illumination in the rhythm of resistance."



➤ *EXPLAINING PROIORITISED TRAFFIC LIGHT SYSTEM TO CONTROL AND MANAGE TRAFFIC IN TIMES OF EMERGENCY.*



➤ *PLAYING LED CHASER GAME AN APPLICATION OF RGB LED'S BY THE STUDENTS OF ZP BOYS HIGH SCHOOL KAMALAPURAM*



"LED strips: where every color tells a story, and every fade is a chapter. Transforming spaces into a canvas of light, they're not just illumination; they're the brushstrokes of ambiance, painting the world in hues of brilliance and mood."



➤ EXPLAINING **DROWSY DRIVER DETECTION SYSTEM** THAT HELPS IN PREVENTING ACCIDENTS FOR TRUCK DRIVERS ON NATIONAL HIGHWAYS.



➤ DESCRIBING ADVANTAGES OF **SMART SHOPPING TROLLEY** –A TIME SAVING METHODOLOGY @ MALLS AND HYPER MARTS TO THE SCHOOL STUDENTS



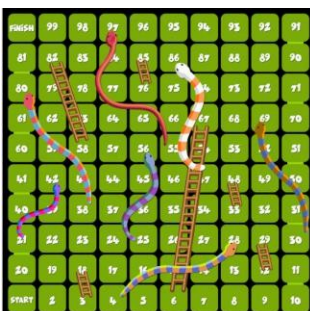
"Waiting in a shopping mall queue is like being in a slow-motion race. You're not sure when the finish line is, but you're determined to win the gold medal in patient shopping!"



➤ **EXPLAINING DIGITAL DICE- AN APPLICATION OF 7-SEGMENT DISPLAY-A ELECTRONIC GAMING PROJECT TO THE DIGNITORIES**



➤ **DEMONSTRATING AUTOMATIC VEHICLE SPEED CONTROL USING RF TECHNOLOGY IN SCHOOL ZONES TO THE SCHOOL STUDENTS**



"Rolling a digital dice is like asking the universe to choose your fate in binary code – it's not just luck; it's a byte-sized adventure where randomness meets the algorithmic whimsy of the electronic dice roller!"



➤ **ELECTRONIC GAMING PROJECT -APPLICATION OF SERVOMOTOR -A BALL THROWING GAME IS BEING EXPLAINED TO VEDAS SCHOOL STUDENTS.**



➤ **DESCRIBING THE PLAYING OF CRICKET GAME ELECTRONICALLY USING LED'S & ATMEL328 MC TO THE ZP URDU SCHOOL STUDENTS KAMALPURAM.**



"Electronic cricket: where the ball bounces in binary, and the bat swings in voltages. It's not just a game; it's a digital showdown where circuits play the field, and the players have a shocking good time hitting boundaries in the realm of electrons!"

➤ EXPLAINING DUAL SECURITY SYSTEM AN APPLICATION 4*4 KEYPAD AND FINGER PRINT SENSOR



DISTRIBUTION OF PRIZES TO THE WINNERS OF ELECTRONIC GAMING PROJECTS IN TECH WAVE-2024 BY THE STAFF OF GOVERNMENT POLYTECHNIC KAMALAPURAM.



➤ INSTALLATION OF **FOOD COURTS- AN INNOVATIVE ENTREPRENEURIAL INITIATIVE** BY THE STUDENTS OF GPT KAMALAPURAM @TECH WAVE-2024 AND PROVIDING REFRESHMENTS TO THE VISITORS.



"Food is not just sustenance; it's a symphony of flavors that orchestrates joy in every bite. It's a journey of cultures, a celebration of creativity, and the universal language that speaks to our taste buds and hearts alike."



➤ **DELICIOUS RAYALASEMA RUCHULU & LIPSMACKING RECIPES WERE OFFERED FOR THE LUNCH @TECH WAVE-2024 TO ALL THE DELEGATES, STUDENTS, and PRINCIPALS OF GOVT.AND PRIVATE INSTITUTIONS, DISTINGUISHED GUESTS AND VISITORS.**



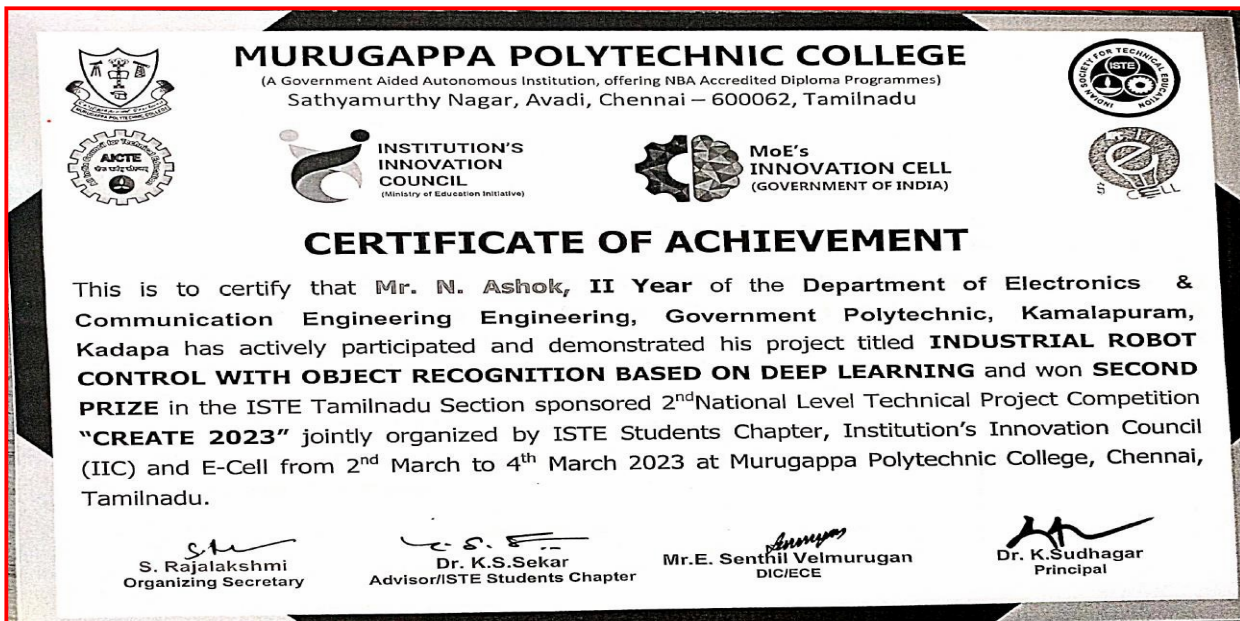
➤ LUNCH SESSION @ DINING HALL OF GOVERNMENT POLYTECHNIC KAMALAPURAM DURING TECH WAVE -2024



Incredible India!

atithi
devo bhava

Atithi Devo Bhava means "Guest is God"



➤ **CERTIFICATE OF ACHIEVING SECOND PRIZES BY THE STUDENT OF GPT KAMALAPURAM @ CREATE-2023 A NATIONAL LEVEL TECHNICAL COMPETITION @MURUGAPPA POLYTECHNIC CHENNAI.**



➤ **STUDENT OF GPT KAMALAPURAM ACHIEVING FIRST PRIZE @ CREATE-2023 A NATIONAL LEVEL TECHNICAL COMPETITION @MURUGAPPA POLYTECHNIC CHENNAI.**

ఆవిష్కరణల వైపు అడుగులేయాలి

కమలాపురం,

న్యూస్టుడే:

సమాజం గర్వించే నూతన ఆవిష్కరణలు చేపట్టాలని ప్రొద్దుటూరు, రాయచోటి ప్రభుత్వ పాలిటెక్నిక్ కళాశాలల ప్రిన్సిపాళ్లు జగదీశ్వరుడు, శివశంకర్ సూచించారు. పట్టణంలోని ప్రభుత్వ పాలిటెక్నిక్ కళాశాల ప్రిన్సిపల్ బి.వెంకటేశ్వర్లు ఆధ్వర్యంలో శనివారం సాంకేతిక, ఆవిష్కరణ ప్రదర్శన (టెక్వేల్ 2024) నిర్వహించారు. 'అడ్వాన్స్ డు మల్టీలెవెల్ సెక్యూరిటీ సిస్టమ్'ను తలుపునకు అమర్చుకుంటే చోరీ చేసిన వారి చిత్రం మన చరవాణిలోకి అప్లోడ్ అవుతుందన్నారు. వాహనాల వేగాన్ని నిరోధించే ఆటోమేటిక్ సిస్టమ్తో పాటు ప్రదర్శించిన 32 సాంకేతిక, ఆవిష్కరణలను పరిశీలించారు. వారు మాట్లాడుతూ విద్యార్థులు ఏర్పాటు చేసిన నూతన ప్రాజెక్టులు, చాలా ఆసక్తిని రేకెత్తించాయన్నారు. అనంతరం విజేతలకు బహుమతులు అందించారు.



సెక్యూరిటీ సిస్టమ్ను పరిశీలిస్తున్న అధ్యాపకులు

విద్యార్థులు ఆవిష్కరణలపై దృష్టి సారించాలి



నూతన సాంకేతిక ఆవిష్కరణలను పరిశీలిస్తున్న ప్రిన్సిపల్స్

కమలాపురం : ప్రతి విద్యార్థి సమాజానికి ఉపయోగపడే నూతన సాంకేతిక ఆవిష్కరణలపై దృష్టి సారించాలని కడప, ప్రొద్దుటూరు, రాయచోటి పాలిటెక్నిక్ కళాశాలల ప్రిన్సిపల్స్ శ్రీనివాసరామ్, జగదీశ్వరుడు, శివశంకర్ తెలిపారు. శనివారం స్థానిక ప్రభుత్వ పాలిటెక్నిక్లో ప్రిన్సిపల్ డాక్టర్ బి.వెంకటేశ్వర్లు ఆధ్వర్యంలో అధ్యాపక బృందం పర్యవేక్షణలో ఆ కళాశాల విద్యార్థులు ఏర్పాటు చేసిన టెక్వేల్-2024ను వారు ప్రారంభించారు. అనంతరం విద్యార్థులు ఏర్పాటు చేసిన 32 ప్రాజెక్టులను పరిశీలించారు. విద్యార్థులు తయారు చేసిన ప్రాజెక్టులన్నీ ప్రజల దైనందిన జీవితాలకు సంబంధించినవి, రైతులు, పరిసర ప్రాంతాల ప్రజలకు అవసరమయ్యేవి కావడంతో విద్యార్థులను అభినందించారు. ఈ కార్యక్రమంలో పట్టణంలోని అన్ని పాఠశాలల హెచ్ఎంలు, ఉపాధ్యాయులు, విద్యార్థులు పాల్గొన్నారు.

- Wide publicity of TECH WAVE-2024 through local print and electronic media organized @Government polytechnic kamalapuram.

➤ **FEEDBACK AND OPINION SHARING BY VISITORS FROM DIFFERENT SCHOOLS**



- **FEEDBACK ABOUT PRESTIGIOUS TECH WAVE-2024 BY SRI.K.MANJUNATH GARU HEES GPT.PRODDATUR,SRI.M.NAGI REDDY GARU PRINCIPAL BC GURUKUL SCHOOL ,KAMALAPURAM SMT.SUDHARANI GARU ,SCHOOL ASST.PHYSICS AND FROM THE STAFF OF VEDAS SCHOOL KAMALAPURAM.**



CLOSING CEREMONY OF TECH WAVE-2024 BY FIRING CRACKERS THROUGH ELECTRONIC MODE BY Dr.B.VENKATESWARLU, PRINCIPAL, And GOVERNMENT POLYTECHNIC STAFF KAMALPURAM.

THE END