ELEGIRON

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A Newsletter of

Department of Electronics and Communication Engineering, RSREC (AUTONOMOUS), Kadanuthala, Kavali, Nellore District







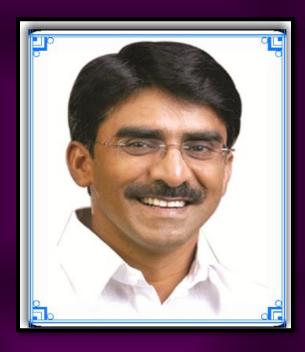
RAMIREDDY SUBBARAMI REDDY ENGINEERING COLLEGE

AN UGC AUTONOMOUS INSTITUTION

Accredited with 'A' Grade (3.17/4.00) by NAAC | Approved by AICTE | Affiliated to JNTUA Recognized by UGC under section 2(f) of UGC Act, 1956 | An ISO Certified Institution



THE BEACONS OF OUR COLLEGE



Er. R. Pratap Kumar Reddy Founder & Chairman



Dr. P.V. Narayana Reddy
Principal



Dr. K. Raja Reddy
Director



Mr. R V Ramana Reddy
Administrative Officer

Dept. of ECE, RSREC (AUTONOMOUS), KADANUTHALA

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VISION AND MISSION OF THE INSTITUTE

Vision

To transform Rural Youth through Science and Technology and creating an innovative knowledge hub whose initiative generates entrepreneurial value towards nation building.

Mission

To teach, empower rural youth, and lead them towards innovation.

To hold ethical practices, empathy and appreciate the culture of learning.

To nurture talents that transform, create, and innovate knowledge.

VISION AND MISSION OF THE DEPARTMENT

Vision and Mission of the Department

Vision

To produce talented engineers in the field of Electronics and Communication, where the knowledge is applied for the sake of industry and societal benefits.

Mission

To equip the students with fundamental knowledge in the area of Electronics and Communication Engineering and increase their employment opportunities.

ABOUT THE DEPARTMENT

The Department of ECE established in 2008 offering B.Tech course with an intake of 120 students. The Department has highly qualified and experienced faculty and excellent infrastructural facilities. Department is well equipped with laboratories, audio-visual facilities, software tools such as MultiSim, ModelSim, MATLAB, IOT & Xilinx. The main vision of the Department is to provide high quality education to the students. The Department has conducted many National level Seminars, Workshops, add-on courses and Guest Lectures for the benefit of the students. Faculty is always in coherence with the latest technologies by participating in various Faculty Development Programmes (FDPs), Workshops, attending in International conferences. The department has research groups in areas such as digital signal and image processing, communication, VLSI design, embedded systems and IOT. The Department accredited by NAAC with A grade. The department has a vision to achieve excellence in ECE through quality education, research and innovation.

FROM THE HOD DESK

As we release the third edition of our Departmental Newsletter (Volume 2, Issue 2), I am filled with a profound sense of pride and anticipation. This Newsletter is not just a compilation of our activities and achievements but a reflection of our collective spirit, dedication and the pursuit of excellence within the Department of Electronics and Communication Engineering (ECE).



Prof. V. Suneel Reddy

The present issue with new achievements and events will enlighten the readers with the activities of department, faculty and students during the May to August 2025.

This issue filled with intense activities; it is exciting to present the details that reflect the buoyancy of the department. Continuing with its stellar performance in getting the highest accreditation status, it is great to witness our faculty and students engaging in various R&D activities and community engagements.

In recent times, our department has been a hub of vibrant activities, hosting a series of events that have not only enriched our academic and professional landscape but have also fostered a sense of community among us. These initiatives, ranging from guest lectures and webinars to add-on courses, have been vital in bridging the gap between theoretical knowledge and practical exposures, preparing our students and faculty for the challenges and opportunities of the future.

As we move forward, it is imperative to acknowledge that these achievements are not the work of individuals but the collective effort of our entire department

Our faculty members have been the backbone of these initiatives, dedicating their time and expertise to mentor and guide our students. Our students, with their enthusiasm and eagerness to learn, have made the most of these opportunities, showcasing their potential to make significant contributions to the field of ECE.

As the Head of the Department, I am honored to lead such a dynamic and forward-thinking community. I am confident that as we continue to embrace challenges, encourage innovation, and foster a culture of continuous learning, our department will scale new heights of success. Let us celebrate our achievements and look forward to creating more milestones together. This newsletter is a step towards chronicling our journey, sharing our stories, and inspiring each other to achieve greatness. I encourage all of you to contribute, participate, and engage Dept. of ECE, RSREC (AUTONOMOUS), KADANUTHALA

with our departmental activities, as we strive to make our mark in the ever-evolving landscape of Electronics and Communication Engineering.

I look forward to the forthcoming editions, brimming with even more captivating activities and feature.

Warm regards,

Prof. V. Suneel Reddy

Head

Department of Electronics and Communication Engineering

"Engineering is the closest thing to magic that exists in the world." – Elon Musk

FROM THE EDITORIAL DESK

The Department of Electronics and Communication Engineering, RSREC is delighted to present you 2025 fourth edition of "ELECTRON", the Departmental Newsletter. Advancement in technology is steadily progressing; it will undoubtedly continue to grow exponentially. Since the inception of the news letter, the editorial team of ELECTRON has been proud to provide a platform that aligns itself with the goals of Technological Advancement.



This newsletter is an excellent way for the readers to read about some new technologies emerging at times like this in this competitive world talent is the most important matter. But talent has a broad definition. Most of the time, it's not about having a gift. It's about having grit. Discipline, trusting yourself, embracing the process, loving the process, managing your life, managing yourself, an open mind, good attitude and building capital are the talents. Some peoples were born with them. Others have to work at them. When you are focusing a point, it is most

important thing in the world. Human beings become more beautiful with their good attitude and innocence than the conventionally defined one.

Welcome to the Electronics and Communication Engineering department's newsletter. We're using this newsletter to stay in touch with our students, professors, and former students in a digital format.

The activities and accomplishments of the department will be highlighted in this newsletter. In addition, it informs readers about recent departmental events, such as placement, ISA, institutional clubs, students and staff accomplishments, as well as the latest departmental news. The department's future is bright, and we're eager to see what more the future holds. We would want to express our gratitude to every one of our faculty, staff, and students for your constant encouragement and support.

"If you spend your whole life waiting for the storm, you'll never enjoy the sunshine."

-Dr. Shaik Rahamtula

EVENTS ORGANISED BY THE DEPARTMENT



A "farewell" in an engineering college is a formal event to celebrate the graduating students, marking the end of their academic journey while acknowledging the shared memories and bonds formed during their studies. Speeches during these events' express gratitude to faculty, parents, and staff, share reflections on the college experience, and offer encouragement for the graduates' future endeavors, serving as both a goodbye and a celebration of achievement.

The main objective of farewell is to formally acknowledge the completion of the engineering program, celebrate the graduating class, and provide a send-off for their future endeavors.

The ECE department of RSREC celebrated farewell party on 17-05-2025 for the final year students. Welcome speeches from college officials,

farewell speeches from faculty and student representatives reflecting on college life.

Music, dance, skits, and other performances organized by students to entertain. Tokens of appreciation are often presented to the graduating students as a reminder of their time at the college.



Invitation poster for the farewell party

"We wish you success and happiness in your future endeavors. Farewell!" or "Your journey is just beginning. Go confidently in the direction of your dreams".





Speech by Head of ECE

Prof: V. Suneel Reddy



Speech by Associate Prof..

Mrs. K. Sree Lakshmi



Speech by Associate Prof..

Dr. M. Kondaiah

Gallery of the Party:-









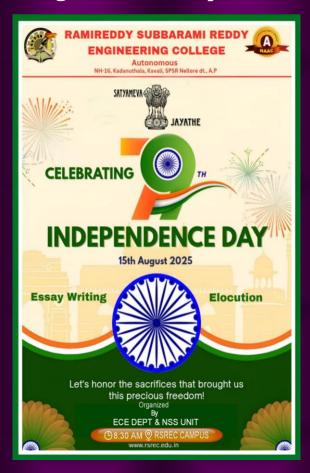


Independence Day in India for 2025 is on Friday, August 15, 2025, and it marks the 79th Independence Day celebration, commemorating the nation's freedom from British rule in 1947. The day is a national holiday observed across all Indian states with flag-hoisting ceremonies, parades,

and speeches by prominent figures, especially from the Red Fort in Delhi.

Ramireddy Subbarami Reddy Engineering College Celebrated the 79thIndependence Day 2025 in 15th August 2025 organized by ECE department and NSS team. The day celebrates India's independence from over 200 years of British colonial rule and marks the beginning of a sovereign nation.

Various cultural programs, kite flying events, and flag-hoisting ceremonies take place across India, with full enthusiasm and fervor.





submissions of the participants.



The Department of ECE and the NSS unit organized ELOCUTION and ES SAY WRITING competitions for RSRE C students on August 13, 2025.

The essay writing competition began at 10:00 AM, followed by the elocution event at 2:00 PM. Dr. U. Rama Murthy served as a judge for the events and assessed the written

Announced the winners in the conducted events.









A photograph featuring the winners, the judge, and the organizers of the events

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Flag hoisting by Principal Dr. P. Veera Narayana Reddy. Our college Director Dr. K. Raja Reddy, Administrative Officer Mr. R. V. Ramana Reddy, Teaching and Non-Teaching Staff and students participated in this celebration.





Prizes distributed to the winners of the conducted events from the hands of Director and Principal. Finally, a group photo collected with dignities, winners and faculties as a successful completion of event.







Workshop on PCB design & Fabrication











The days from August 19th 2025 to August 23rd 2025 (5 Days), marked a milestone in our continuous journey of learning and professional development. The ECE department hosted a workshop on "PCB DESIGN Dept. of ECE, RSREC (AUTONOMOUS), KADANUTHALA

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& FABRICATION" in collaborative with Technotran. This event, graced by the expertise of Technotran Nellore, was not just another session; it was a doorway to opportunities, knowledge, and real-world experience for our students. In today's competitive job market, training programs are more than just a knowledge booster; they are a crucial bridge connecting academic learning with industry experience.



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The workshop on PCB design teaches participants the process of creating Printed Circuit Boards, from conceptualization and schematic design to layout and fabrication using specialized software like Eagle or KiCad.



The workshop involve hands-on sessions, cover basic electrical principles, component selection, and routing, and sometimes include the practical skills of etching, drilling, and soldering for creating functional prototypes.









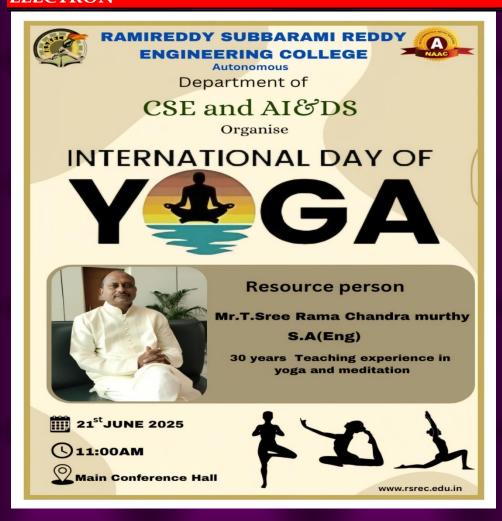
INTERNATIONAL DAY OF



On 21 June 2025, millions of people around the world came together to celebrate the 11th United Nations' International Day of Yoga, embracing the theme "Yoga for One Earth, One Health.".

The staff and students of Electronics and Communication Engineering successfully participated the International yoga day event organized in RSREC by Department of CSE and AI&DS in association with NSS at main conference hall on 21st June 2025.





The Resource person Mr.

T. Sree Rama Chandra

Murthy S.A (Eng), 30

years teaching experience
in yoga and meditation.









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శుభికదయం/

ఆర్ఎస్ఆర్ కళాశాలలో ఘనంగా 11వ అంతర్మాతీయ యోగాడే



(శుభోదయం స్యూస్) బిట్టుగుంట: బోగోలు మందలం కదసూతల రామిరెడ్డిసుబ్బరామిరెడ్డి జంజసీరింగ్ కళాశాలలో 11వ అంతర్జాతీయయోగాడే (యోగాంద్ర – స్వచ్ఛ అంధ్ర) సు ఘనంగానిర్వహించిపట్లుకళాశాల ట్రిన్సిపాల్ దాక్టర్ పి ఎన్ రెడ్డి తెలిపారు. ఈకార్యక్రమానికి

ముఖ్యఅతిథిమరియు యోగాసనాలలో 30 నంవత్సరాలకు పైగానైపుణ్యంకలిగిన టి. శ్రీరామచంద్ర మూర్షినిఅహ్వానించివారి అధ్యర్యంలోయోగడేసుఘనంగా నిర్వహించినట్లువారుతెలిపారు. ఈసందర్భంగాతయన మాట్లాదుత్వువేతిదేసంయోగ చేసినట్లయితేఆరోగ్యంఎంతగానో ఉల్లానంగానూఉత్సాహంగాను



ఉంటూఎలాంటిరుగృతలు లేకుందాజీవితంసాగిపోతూదని తెలిపారు.దీనికిముఖ్య ఉదాహరణమన్మపస్తుత్మధాన మంత్రినరేంద్రమోధీఅలాగీరమణ మహర్షి,రాందేవ్ బాబావంటివారన్నారు. మనిషి, అహ్లోదకరంగాఆరోగ్యంగా ఉండదానికి్యధానమందుయోగానే అనివారుతెలిపారు. పైకార్యక్రమంలో కళాశాలఎవో ఆర్. వి. రమణారెడ్డితో పాటుఅన్ని విభాగాలఅధిపతులు, అధ్యాపకులు, అధ్యాపకేతర సిబ్బందితదితరులుపాల్గొనియోగ అసనాలువేశారు.

> www.subhodayamdaily.com 22 Jun 2025 - Page 4

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ఆర్ఎస్ఆర్ లో ఘనంగా 11 వ అంతర్జాతీయ యోగా దే



బిటగుంట జూన్ 21 ప్రభాతవార్త: బోగోలు మందలం కదనూతల గ్రామంలో గల రామిరెడ్డి సుబ్బరామిరెడ్డి ఇంజనీరింగ్ కళాశాలలో 11వ అంతర్జాతీయ యోగా డే (యోగాంధ్ర స్వచ్ఛ ఆంధ్ర) ను ఘనంగా నిర్వహించినట్లు కళాశాల ప్రిన్సిపాల్ డాక్టర్ పి వి ఎన్ రెడ్డి తెలిపారు. ఈ కార్యక్రమానికి ముఖ్య అతిథి మరియు యోగాసనాలలో 30 సంవత్సరాలకు పైగా నివుణులైన శ్రీ టి. శ్రీరామ చంద్ర మూర్తి ఆధ్వర్యంలో యోగ డే ను ఘనంగా నిర్వహించినట్లు వారు తెలిపారు. ఈ సందర్భంగా ముఖ్య అతిథి మాట్లుడుతూ ప్రతి దినం యోగ చేసినట్లయితే ఆరోగ్యం ఎంతగానో ఉల్లాసంగానూ ఉత్సాహంగాను ఎలాంటి రుగ్మతలు లేని జీవితం సాగిపోతూ ఉంటుదని తెలిపారు. దీనికి ముఖ్య ఉదాహరణ మన ప్రస్తుత ప్రధాన మంత్రి నరేంద్ర మోధీ అలాగే రమణ మహార్ష్మి రాందేవ్ బాబా వంటి వారు ఎంతో ఆహ్లాదకరంగా ఆరోగ్యంగా ఉండడానికి ప్రధాన మందు యోగా అని వారు తెలిపారు. ఈ కార్యక్రమంలో కళాశాల ఏవో ఆర్ వి రమణారెడ్డి తో పాటు అన్ని విభాగాల అధిపతులు, అధ్యాపకులు, అధ్యాపకేతర సిబ్బంది తదితరులు పాల్గొని యోగ ఆసనాలు వేసినారు అని తెలిపారు..





To mark the anniversary of the National Education Policy (NEP) 2020 on 29th July 2025 RSREC organized an event with titled "Empowering India Through Interdisciplinary Innovation & Entrepreneurship", by Dr. P. Veera Narayana Reddy, Principal RSREC.



Finishing School for Employability



The demand for a versatile skill set is at an all-time high in the current landscape. Employers are no longer satisfied with candidates who only excel academically; they seeking well-rounded individuals who can demonstrate exceptional skills. effective soft communication abilities. the confidence and to diverse in excel professional settings. As evolve, industries the

emphasis on practical, real-world skills becomes more pronounced, creating a gap between traditional academic education and the competencies required in the workplace.

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Ramireddy Subbarami Reddy Engineering College hosted a program of finishing school for employability implemented by ICTACADEMY on 11-08-2025 by Infosys foundation. The inaugural speakers for this program are Dr. P. Veera Narayana Reddy Principal RSREC, A. Mohan Reddy Placement officer RSREC, Dr. B. Satya Narayana Reddy IQAC coordinator RSREC and S. Dinakar Reddy State Head Andhra Pradesh ICT Academy.









Faculty Development Program on Microsoft Power Bi

A faculty development program (FDP) on Microsoft Power BI equips educators with skills to use the data analytics tool for teaching, research, and institutional integration, covering data preparation, modeling, visualization, and dashboard creation. These programs enhance curricula, provide support for research, and improve faculty data literacy, with objectives including practical skill development and curriculum integration to foster student engagement with analytical tools.



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To enable faculty to use Power BI as a tool for data analysis in various research domains, thereby enhancing the applicability and depth of academic research.

Faculty Development Program on Microsoft Power Bi Data Analyst Associate on 14 to 18 July 2025 by ICT Academy in association with IQAC and RSREC at main seminar hall.







Faculty Achievements

Ph.D awarded to Mr. Mogoligundla Kondaiah, Associate Professor in ECE department of Ramireddy Subbarami Reddy Engineering College by Jawaharlal Nehru Technological University Kakinada on 14th May, 2025 for the Thesis entitled "Effective Spectrum Utilization in Massive MIMO Systems through Optimal Power Allocation", under the guidance of Dr. M Padmaja Professor of VR Siddhartha Engineering College, Vijawada.



Dr. M. Kondaiah, Associate Professor of ECE receiving PhD award from JNTUK

ELECTRON

Dr. P. Brundavani, has successfully authored and contributed to the publication of

the book titled "An introduction to VLSI Design and Testing", this work has been officially published by Garuda Publications, bearing the ISBN: 978-81-987308-0-0, on May 2025. This publication meets all editorial and ethical standards and is now available in print and/or digital formats for distribution worldwide.

Shaik Rahamtula, Dr. has presented a paper titled "Decentralized Air Quality Management using Edge Real-time Control", at 3rdInternational Conference Augmented Intelligence and Sustainable Systems (ICAISS-2025)held from 21st -23rdMay, 2025 at CARE College of Engineering, Trichy, Tamil Nadu, India in Association with IEEE with ISBN: 979-8-3315-0723-7.

https://www.researchgate.net/publication/392987401_Decentralized_Air_Quali







ty Management_using Edge_AI_and_Real-Time_Control#:~:text=This%20study%20p resents%20an%20FL,data%20privacy%20 at%20each%20source..

Dr. Shaik Rahamtula, has successfully participated in Eat Right Quiz on "obesity demonstrated and commitment promoting healthy eating habits contributing towards a Swasth Bharat", held on 14th May, 2025. Organized by FSSAI (Food Safety Standards and Authority of India), Government of India.

Dr. Shaik Rahamtula, has successfully participated in Quiz on "International Day of Yoga 2025", held on 14th May, 2025". Organized by Ministry of AYUSH & My Gov, Government of India.

Dr. Shaik Rahamtula, has successfully participated in Quiz on "RMS 2025-2026 Wheat Procurement at MSP", held on 14th May, 2025". Organized by DFDP & MyGov, Government of India.

Dr. Shaik Rahamtula, has successfully participated in Quiz on "Swachh Bharat mission Grameen Phase-II", held on 13th







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May, 2025". Organized by Department of water and sanitation & My Gov, Government of India.

Dr. Shaik Rahamtula, has successfully participated in Quiz on "Yantra Quest: The National Technology Day 2025", held on 14th May, 2025". Organized by Technical Development Board (TDB),

Government of India.

Dr. Shaik Rahamtula, has successfully participated in Expert Talk on "Importance of IPR in Academia and Research", held on 28thApril, 2025. Organized by IPR cell and Central library of Engineering & Technology, Jaipur, India.

Dr. Shaik Rahamtula, has successfully participated in one week Faculty Development Program on "Microsoft Power BI Data Analyst Associate", held from 14th July, 2025 to 18th July, 2025". Conducted by ICT Academy in association with Microsoft at Ramireddy Reddy Subbarami Engineering College, Andhra Pradesh.



Dr. P. Brundavani, has published a paper title "Target Detection in WUSHU competition video based on Kalman filter algorithm of multi target tracking", in

ELECTRON

Technologies and their Effects on Real-Time Social Development, Vol 167, Part A2(S), 2025, Reference No: IJME 2502, DOI: 10.5750/sijme.v167iA2(S).2502.

Dr. P. Brundavani, has published a paper title "Power Signal Processing and Feature Extraction Algorithms Based on Time-Frequency Analysis", in Technologies and their Effects on Real-Time Social Development, Vol 167, Part A2(S), 2025, Reference No: IJME 2503, DOI: 10.5750/sijme.v167iA2(S).2503.

Dr. P. Brundavani, has published a paper title "Content Based Secure Recommender System for Big Data Analytics", in





Technologies and their Effects on Real-Time Social Development, Vol 167, Part A2(S), 2025, Reference No: IJME 2503, DOI: 10.5750/sijme.v167iA2(S).2503.

Dr. P. Brundavani, has successfully participated in technical workshopfor NPTEL

Stars, held on 6thJuly, 2025 at the SAC Auditorium, IIT Madras.

Dr. P. Brundavani, has successfully participated in 5 Days Faculty Development Program on "AI, ML and Deep Learning for Autonomous Vehicles", held from 28th July, 2025 to 1st August,



2025". Conducted by STEP-National Institute of Technology Karnatakain association with Pantech e Learning.

Dr. P. Brundavani, has actively participated and completed one week Faculty Development Program on "Innovative Practical Hands-on Teaching Methodologies of

Computer Science Engineering", Scheduledfrom12thMay, 2025 to 17stMay, 2025. At Indira Gandhi Delhi Technical University for women, Delhi in association with Design and Innovation Centre, MHRD, IGDTUW.

Dr. Brundavani, has successfully participated in Faculty one week Development Program on "Microsoft Power Analyst BI Data Associate", from 14th July, 2025 to 18th July, 2025". Conducted byICT Academy in association Microsoft at RamireddySubbarami with Reddy Engineering College, Andhra Pradesh.



- Dr. P. Brundavani, Awarded with Excellence in Reviewing in recognition of an outstanding contribution to the quality of journal by the Journal of Experimental Agriculture International. https://reviewer.revierwerhub.org.
- Dr. P. Brundavani, Awarded with Excellence in Reviewing in recognition of an outstanding contribution to the quality of journal by the Annual Research & Review in Biology. https://reviewer.revierwerhub.org.

Student Achievements

Reddy Sri Anjana Annam Reddy final year student of Electronics and Communication Engineering been selected for a has month stipend-based Internship Tirupati IITat Navavishkar I-Hub Foundation.

Annam Reddy Sri Anjana
Reddy has successfully
participated in the STAR – PNT
Summer Internship Challenge
2025 conducted by IITNiF. She
got Good merit.





www.rsrec.edu.in

Panguru Tejaswini has successfully completed the HP LIFE online course "AI for Beginners", got certificate on 10th August 2025 from deputy Director of HP Foundation.



Guvvala Mounika received the Indian Society for Technical Education (ISTE) student membership by the approval of Executive Council for the duration 04-12-2024 to 04-12-2027.

Pallavi received the Indian Society for Technical Education (ISTE) student membership by the approval of Executive

Council for the duration 04-12-2024 to 04-12-2027.

Muli Poojitha received the Indian Society for Technical Education (ISTE) student membership by the approval of Executive Council for the duration 04-12-2024 to 04-12-2027.

