CET ELECTRON

NEWSLETTER OF DEPARTMENT OF ELECTRONICS AND COMMUNICATION, CET

ALUMNI'S CONTRIBUTION: THE DEPARTMENTS OF ECE AND AEI RECEIVED DONATIONS FROM THEIR FORMER MEMBERS

The former ECE and AEI batches of the College of Engineering Trivandrum (CET) have strengthened their ties with the institution through significant contributions to their respective departments. On January 28, 2025, the ECE batch of 2015 donated LCD projectors, followed by the AEI batch of 2008-2012 on February 3, 2025, which provided two LCD projectors and IT equipment. The donations have been highly appreciated by the departments, recognizing the alumni's continued support and commitment to enhancing academic facilities and student learning experiences.

LA HISTORIA: THE STORY

"La Historia: The Story", a documentary produced by the EC Association, commemorates the 60th anniversary of the Department of Electronics and Communication of College of Engineering Trivandrum (CET). The film provides a comprehensive account of the department's history, showcasing its evolution, academic achievements, and technological advancements over the decades. Featuring interviews with alumni and faculty, the documentary offers insights into the department's influence on both professional and personal lives. More than a tribute to the past, La Historia: The Story seeks to inspire future generations to carry forward the legacy of excellence and innovation in electronics engineering.

THRIVING YOUNG MINDS

Seventeen volunteers from the College of Engineering Trivandrum (CET), including five from the Department of Electronics & Communication Engineering (ECE), participated in year-long mentoring sessions at Model Residential School, Katella. As part of the initiative, 64 MRS students visited CET on January 31, 2025, for a first-hand experience of campus life. The THRIVE Project aims to bridge educational gaps and inspire tribal students to pursue higher education and careers in technology. CET volunteers from ECE, including Afwan Shah (S4 AEI), Ann Gipson (S6 AEI), Jaiden (S2 AEI), Jigmat Nurboo (S6 ECE), Jyothirmayi (S4 AEI), Maria Gipson (S6 AEI), Nanditha D (S4 AEI), Nihal Rahman (S6 ECE), P. S. Gourilakshmi (S6 AEI), Pranathi Ajayan (S6 AEI), Sarosh (S4 AEI), Shreyas Kishore (S6 AEI), and Shriya (S4 AEI), mentored students in Mathematics, Physics, Personality Development, and Logical Reasoning. Their efforts helped bridge technical knowledge gaps and encourage students to explore opportunities in STEM fields.

ECE DEPARTMENT SECURES THREE-YEAR NBA ACCREDITATION FOR M.TECH PROGRAMS

The Department of Electronics and Communication Engineering has received accreditation from the National Board of Accreditation (NBA) for a period of three years for its M.Tech programs in Applied Electronics & Instrumentation, Signal Processing, Communication Systems, and Robotics & Automation.
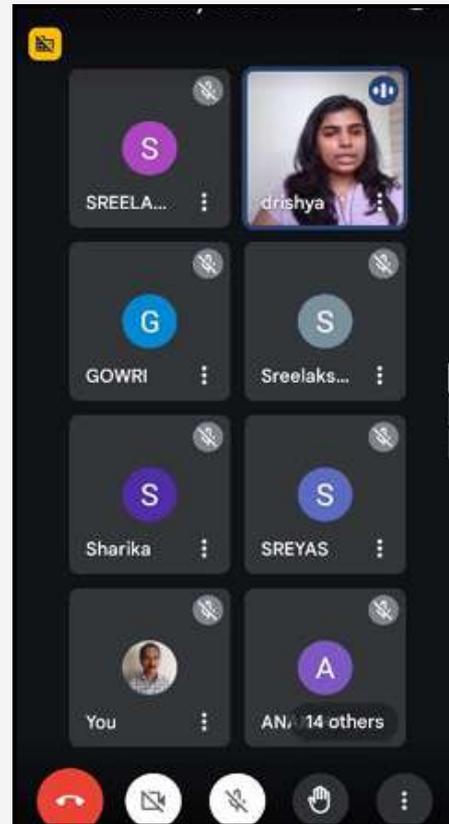
This accreditation reflects the department's commitment to maintaining high academic standards, delivering quality education, and fostering continuous improvement. It is a recognition of the collective efforts of the faculty, students, and staff in upholding excellence in teaching and research.

INDUSTRY INTERACTION SERIES

ALSTOM

The first Industry Interaction session was conducted on August 25, 2024, at 5:00 PM via Google Meet, featuring Drishya Damodaran, a 2020 Applied Electronics graduate and Control Engineer at Alstom. Drishya shared insights on control engineering, automation, and emerging industry trends. Students engaged in discussions on career opportunities and AI in railway automation, making it an enriching experience.
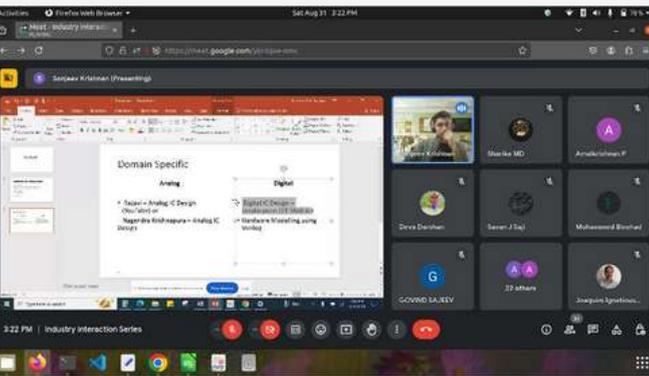

AMD

Later that week, an Industry Interaction session was conducted on August 30, 2024, at 12:30 PM in ECE 255, featuring Anjana Padmanabhan, a 2020 Applied Electronics graduate and Silicon Design Engineer at AMD. Anjana shared insights on silicon design, semiconductor industry trends, and key technical skills. Students engaged in discussions on chip design advancements and industry expectations, making the session highly insightful.

TEXAS INSTRUMENTS

The next day on August 31, 2024, at 3:00 PM, an Industry Interaction session was conducted via Google Meet, featuring Sanjeev Krishnan S A, a 2020 Applied Electronics graduate and Analog Design Engineer at Texas Instruments. Sanjeev provided insights into analog design, semiconductor industry trends, and essential engineering skills. Students actively participated in discussions on career opportunities and advancements in chip design, making it a valuable session

AMAZON

An Industry Interaction session on October 19, 2024, at 3:00 PM via Google Meet, featuring Aiswarya Balaji, a 2020 Applied Electronics graduate and Vendor Manager at Amazon. Aiswarya shared insights on supply chain management, vendor relations. Students actively participated in discussions on industry trends and transitioning from engineering to management roles, making it an engaging session.

Former Amazon General Manager

The Department of Electronics and Communication Engineering conducted an Industry Interaction session on January 23, 2025, at 2:30 PM in CETAA Hall, featuring Vivek Rajukumar, a 2005 batch alumnus and former General Manager at Amazon. The session, titled "First Principles for a Fulfilling Career," focused on fundamental thinking, problem-solving, and long-term career growth strategies. Students engaged in discussions on industry challenges and decision-making frameworks, making it an insightful experience.

T PRO BONO

T PRO BONO is a dynamic non-profit organisation registered under TBI(Technology Business Incubator) CET, which is poised to revolutionize the societal landscape through technological innovation.

It is inaugrated by Dr.Rajasree M.S on June 2024 and is entirely led by the bright minds of CET students. The Chief Executive Officer is IshaLekshmi I S(S8 AEI) andChief Operational Officer is JoswinJohny(S8 AEI).The objectives of T PRO BONO are to utilise innovation to address societal challenges, develop projects that directly contribute to the betterment of underserved communities by focusing on health, education and other public sectors and engage the brightest minds from CET to lead real world tech projects that have meaningful societal Impacts.

The diverse range of projects under the organisation are aimed at to focus on leveraging technology to empower marginalized communities by providing access to resources, education, and skills development. The projects are designed with sustainability in mind for ensuring long lasting benefits and environment friendly.

FACULTY & TECHNICAL STAFF TRAINING ON LINUX COMMANDS

The ECE Department organized a half-day hands-on training session on Linux Commands for faculty members and technical staff on February 14, 2025. The session was conducted by Mr. Narasimhan T., Assistant Professor, Computer Science & Engineering Department.

With 35 participants, the training focused on fundamental and advanced Linux commands, covering file management, user permissions, process control, networking, and shell scripting. The interactive, hands-on approach allowed attendees to practice real-time command execution, enhancing their practical skills.

The session was highly engaging and well-received, equipping participants with essential Linux expertise for academic and technical applications.

RESEARCH PUBLICATIONS

FACULTY ACHIEVEMENT

Comprehensive Analysis of Recombination Characteristics Due to Illumination Under Elevated Temperature in Monocrystalline and Multicrystalline Wafers.

Faculty Name: Dr Reshmi E
Journel: Silicon
Publisher: Springer
Month&Year: 19th February 2025

- **Enhanced MRI Reconstruction using Compressed Sensing and Sparse Representation Techniques**

  Research Scholar: Libiya Thomas
  Guide: Joseph Zacharias
  Journel/Conference:2024 IEEE Recent Advances in Intelligent Computational Systems (RAICS), Kothamangalam, Kerala, India, 2024, pp. 1-6, doi: 10.1109/RAICS61201.2024.10690056
  Month&Year: May 2024

- **Multi-label Bird Species Classification from Field Recordings using Mel_Graph-GCN Framework**

  Research Scholar: Nouminda A
  Guide: Rajeev Rajan

- **X-Vector-Based Speaker Diarization Using Bi-LSTM and Interim Voting-Driven Post-processing**

  Research Scholar:J.B.Mala
  Guide:Rajeev Rajan, Alex Raj
  Journel/Conference:In: Nöth, E., Horák, A., Sojka, P. (eds) Text, Speech, and Dialogue. TSD 2024. Lecture Notes in Computer Science(), vol 15049. Springer, Cham. https://doi.org/10.1007/978-3-031-70566-3_15
  Month&Year:August 2024

- **Semantic segmentation in skin surface microscopic images with artifacts removal**

  Research Scholar: Aneesh.R P
  Guide: Joseph Zacharias

RESEARCH PUBLICATIONS

Journel/Conference: Proc. Interspeech 20241. , 4793-4797,doi:10.21437/Interspeech.2024-1453
Month&Year: September 2024

- **Curcuma Longa Derived Heteroatom-Self-Doped Porous Carbon for Cost-Effective Solid-State Supercapacitors**

  Research Scholar: G.S.Sangeetha Gopan, Nelsa Abraham, S.Rani, Dona Kurian, K.M.Alana
  Journel/Conference: ChemNanoMat: e202400505. https://doi.org/10.1002/cnma.202400505
  Month&Year: November 2024

- **Mitigating self-echo in public cellular access networks using counter-propagating light wave interferometry**

  Research Scholar: Archa Chandrasenan
  Guide: Joseph Zacharias
  Journel/Conference:1. Opt Quant Electron 56, 1994 (2024). https://doi.org/10.1007/s11082-024-07634-7
  Month&Year: November 2024

Journel/Conference: Comput. Biol. Med. 180, C (Sep 2024). https://doi.org/10.1016/j.compbiomed.2024.108975
Month&Year: September 2024

- **CUNet: A Customized U-Net Variant Exploiting Convolutional Shortcuts**

  Research Scholar: Akhilaraj D
  Guide: Joseph Zacharias
  Journel/Conference:2024 IEEE Recent Advances in Intelligent Computational Systems (RAICS), Kothamangalam, Kerala, India, 2024, pp. 1-6, doi: 10.1109/RAICS61201.2024.10689756
  Month&Year: May 2024

- **Lightweight Stereo Image Super-Resolution Using Parallax Attention**

  Research Scholar: Smriti Govind
  Guide: Pradeep R
  Journel/Conference:2024 International Conference on Advancements in Power, Communication and Intelligent Systems (APCI), KANNUR, India, 2024, pp. 1-6, doi: 10.1109/APCI61480.2024.10617097
  Month&Year: June 2024

Susan Mathew(S6 ECE)
Completed NPTEL course on System Design through Verilog with a consolidated score of 92% and became one among the top 5% certified in this course

Nirupama Sankar B(S6 ECE)
Completed NPTEL course on System Design through Verilog with a consolidated score of 91% and became one among the top 5% certified in this course

Jnanesh Naick G(S4 AEI)
Won First Prize in IGNITES'23 conducted in November 2023 by IEDC

Rohit K(S4 AEI)
Got awarded the best pitching award among hundreds of teams in a five day IDE bootcamp conducted on 17th February 2024 to 21st February 2024 by AICTE

Civin C Peteria (S6 ECE)
Won the Allianz Tech championship 2024

ACHIEVEMENTS

Anagha Umesh(S6 ECE)
Got selected as the Google Developer Groups On Campus Organiser and Campus Lead of College of Engineering Trivandrum for the year 2024-25 by Google Developer Groups India, Got selected to represent the college at Envision 2025, India's first Energy Festival organised by IIT Madras Research Park and Indian Energy Storage Alliance, held at IITMRP from 29th-31st January, 2025.

Ashwin Biju (S2 AEI)
Secured 2nd position in the ieee day pes quiz held on 17.11.2024 and 1st position in the prelims of the same held on 15.10.2024

Shanoj P(M4 Robotics)
Secured Third prize in the idea contest held in connection with SCTIMST Open Day 2024 for outstanding contribution and innovative idea

Achutta Aswin Naick(S6 ECE)
Completed NPTEL course on Digital Circuits with a consolidated score of 75% and became one among the top 5% certified in this course

Abhinav Krishna B and Ashwin Biju (S2 AEI)
secured 2nd position in Ideathon-IEEE Equinox 2024 held on 05.10.24

Shafna Fathima K, Sameena K S (S4 AEI)
A Zone Women's Volleyball Tournament Champions, Interzone Volleyball Tournament 2nd Runners Up

Bharath J(S4 AEI), MV Madhavan(S8 ECE)
A Zone Men's Badminton Tournament Champions, Interzone Men's Badminton Tournament 2nd Runners Up

Viswajith P(S4 AEI)
Secured First Prize in Tatva Chess competition Conducted by NIT Calicut

Viswajith P, Ardra S Sharma (S4 AEI)
A Zone Chess Tournament Champions, Interzone Chess Tournament 3rd Runners Up

Kripa Sophy David, Jyothirmayi Suresh (S4 AEI), Akhila R Nair(S6 ECE)
A Zone Women's Basketball Tournament Runners Up, Interzone Women's Basketball Tournament 2nd Runners Up

Ashitha A(S4 ECE)
A Zone Women's Badminton Tournament Champion

Sreerag N S, Akash B(S4 AEI)

A Zone Men's basketball Tournament Runners Up, Interzone Men's basketball Tournament 3rd Runners Up

Akash B(S4 AEI)

Secured the most promising player award in KTU A Zone Men's Basketball Tournament, Got Selected to KTU University Men's Basketball Team

Kripa Sophy David(S4 AE)

Secured the most promising player award in KTU A Zone Women's Basketball Tournament, Got Selected to KTU University Women's Basketball Team, KTU A Zone Women's Handball Tournament Runners Up

Sona Steephen(S4 AEI), Saranya P(S6 AEI)

A Zone Women's Kho Kho Tournament Champions

Akhil A(S6 AEI)

A Zone Men's Kho Kho Tournament Champion, Interzone Men's Kho Kho Tournament Champion

Hasil Ali S2 ECE, Vaishnav Suresh S4 AEI

A Zone Men's Cricket Tournament Champions

Krishna P J(S8 AEI), Shad Muhsin K(M2 AEI)

A Zone Men's Handball Tournament Champions

PLACEMENTS

Texas Instruments

S FASNA(S8 ECE)
DAVE PAUL JOSEPH(S8 ECE)
MV MAHADEVAN(S8 ECE)
SURYAGAYATRI THANGALAZHI
(S8 ECE)

cognizant

PRIYANKA THOMAS(S8 ECE)
YADUKRISHNAN TP(S8 ECE)
HARIDATHAN S(S8 ECE)
EK JITHIN DAS(S8 AEI)
MOHAMMED SHIBIN ROSHAN K T
(MTECH ECE)

U·ST

ARJUN ANIL(S8 ECE)
HARINANDH M M(S8 ECE)
BEWIN MATHEWS GEORGE(S8 AEI)
ANAND KRISHNA VB (S8 AEI)

TISMO — Embedding Excellence

ADARSH VARGHESE(S8 ECE)
BRISTO C J(S8 ECE)

Capgemini

DILNA DINESH C(S8 ECE)
KRISHNENDU(S8 ECE)
NAMITHA P(S8 AEI)
SIMRAN ASLAM(S8 AEI)
HIMA P ANIL(S8 AEI)

ASHOK LEYLAND

THEERTHA DEVAN(S8 ECE)
ALWIN BABU(S8 AEI)

MVJ COLLEGE OF ENGINEERING — Since 1982 — Engineering A Better Tomorrow

ANUSREE R (MTECH ECE)
ARATHY A R (MTECH ECE)

tcs | TATA CONSULTANCY SERVICES

IRENE SAIRA MATHEW(S8 ECE)
JOEL JAMES(S8 ECE)
ARANYA KRISHNA S(S8 ECE)
SUHA DINESH S(S8 ECE)
KRISHNENDU K P(S8 ECE)
ATHITHIYAN RAJA(S8 AEI)
NIRANJANA V(S8 AEI)
SHAUN J THOMAS(S8 AEI)
ANAGHA GIRI(S8 AEI)
ANARGHA REMESH(S8 AEI)
VAISHNAVI G J(S8 AEI)
PARVATHI M(S8 AEI)
JOSWIN JOHNY(S8 AEI)
VARUN SUBRAMANIAN(S8 AEI)
ABHISHEK P NAIR(S8 AEI)

amadeus

ALTHAF MANSOOR
(S8 ECE)

centelon solutions

HARIKRISHNAN P(S8 ECE)
ARJUN P V(S8 ECE)

FEDERAL BANK — YOUR PERFECT BANKING PARTNER

SRUTHI T P (MTECH ECE)
VISHNU MURALEEDHARAN
(MTECH ECE)

PLACEMENTS

Infosys
AAGNEY K(S8 AEI)
ANJANA NAIR(S8 AEI)
AKASH D S(MTECH ECE)

embed UR
VARUN SUBRAMANIAN(S8 AEI)
PAUL THOMAS(S8 ECE)

L&T
ANANYA A SATHISH(S8 AEI)
VAISH(S8 AEI)

Linde Material Handling
ALEX JOSE(S8 AEI)
ABU BINOY MATHEW(S8 AEI)

Schneider Electric
GOVIND V(S8 ECE)
RAMEESA JAHAN(S8 ECE)
SRADHA S KUMAR(S8 ECE)

KALGUS LABS
SREELEKSHMI M S
(S8 ECE)

Reliance Industries Limited
NIRANJANA V(S8 AEI)
DEVIKA P M(S8 AEI)
ANEENA ARSHAD(S8 AEI)

ANORA
GOKUL GOPALAKRISHNAN
(S8 ECE)

ignitarium Spark On.
AKSHAY K SUBASH(S8 ECE)
YADUKRISHNAN TP(S8 ECE)
AKASH KRISHNA EV(S8 AEI)

TIGER ANALYTICS
ABEL VARGHIS MATHEWS
(S8 ECE)

EY Building a better
SIDHARTH SHIBU(S8 ECE)
SARANG V SUBRAHMANYAN
(S8 ECE)

nalashaa Think Simple. Build Powerful.
MOHAMMED RISWAN M P
(MTECH ECE)

INTERNSHIPS

AMD
BHADRA ASHOK(S8 ECE)
DEENA MARIYA DAVID(S8 ECE)

IBM
ASWATHY N(S8 ECE)
SHIFA BASHEER(S8 AEI)
AISWARYA LEKSHMI N A(S8 AEI)

centelon solutions
GAUTHAM LAKSHMAN ARUN
(S8 AEI)

quantiphi
KRISHNA S NAIR(S8 AEI)
GOWRI S(S8 AEI)

amazon
THEERTHA DEVAN
(S8 ECE)

Linde Material Handling
JONATH JOSHY P
(S8 ECE)

UST
FAHMI ANAS(S8 ECE)
ADWAITH S(S8 ECE)
ALVIN JOSEPH(S8 ECE)

TOPPERS

MTECH TOPPERS

ATHIRA J SHENOY	8.33	M1	8.94	M2	(MNE)
ADITHYA S NAIR	8.56	M1	8.5	M2	(SP)
ARATHI A R	9.14	M1	9.56	M2	(CS)
GAUTHAM MANAMBETH	8.94	M1	9.83	M2	(AE)
ATHIRA J	8.39	M1	9.25	M2	(ROBOTICS)

ECE (S3) TOPPERS

DIYA VASIM	10
KARTHIK A K	9.86
ANURAGH HARIDAS	9.82
HIBA PARVIN	9.82
SEBA RAJU	9.82
JULIN MARY DEEPAK	9.82
ADITHYA PRAKASH	9.73
SHRADHA P	9.73
PARVATHY B	9.73
ANGEL MARY BIJOY	9.73
ANNA M JOSHY	9.68
NANDAKISHORE B	9.68
SRIKRISHNA S	9.68
AHALYA KRISHNAN	9.64
ACHUTHA ASWIN	9.64
ARYASREE S	9.64
MERIYA ELEYAS	9.64
GAUTHAM SYAM S	9.55
MUHAMMED RAJAB C	9.45
ANJANA P SAJIV	9.41
ABHIJITH D	9.36
KRISHNADEV K	9.36
SANDHRA TREASA	9.32
INDU C R	9.32
MARIA JOSEPH	9.27
GOVINDH J	9.25
DIYA DLE	9.14
SURYADHARSAN	9.09

AEI (S3) TOPPERS

BHARATH J	9.82
NIKHIL MM	9.59
KRIPA SOPHY DAVID	9.55
AMRITHA R S	9.55
AKSHAY	9.39
SREEHARI R	9.36
JOEL JOSE	9.27
PARVANA P	9.27
ROSHAN	9.27
I P RHITHIKA	9.23
HANNA SHERIN	9.18
SONA STEEPHEN	9.18
NANDANA V S	9.09
SREERAAG N S	9.09
THEERTHA S	9.09
JEEVAN POULOSE	9.05
MEDHA B KURUP	9.00

TOPPERS

ECE (S5) TOPPERS

GOWRI NANDANA	9.52
LINTO JOMON	9.52
ANAGHA UMESH	9.43
SUPARNA R	9.35
SUSAN MATHEW	9.26
SAFDAR NAZIM	9.22
VASANTHI B N S	9.22
DIYA ROSE THOMAS	9.17
NIRUPAMA SANKAR B	9.13
RITA MARIA THOMAS	9.09

AEI (S5) TOPPERS

M K S RASHMIKA	9.82
SAPNA HARILAL	9.64
NAVMI SREERAJ	9.55
ASHILY BINU	9.45
GOWRI KRISHNAN M	9.36
NEERAJA A	9.36
S SUVEDHA	9.32
MEGHA ELIZABETH KURIAN	9.27

ECE (S7) TOPPERS

ASWATHY N	10
DINA MARIAM DAVID	9.67
S FASNA	9.57
GOUTHAM S KUMAR	9.42
BRISTO C J	9.4
INDUJA V	9.4
THEERTHA DEVAN	9.4
ATHUL KRISHNA AB	9.37
AKHIL. A.S	9.33
PRIYANKA THOMAS	9.27
MV MAHADEVAN	9.13
V JANAKI	9.07
ADVAITH V	9

AEI (S7) TOPPERS

KRISHNA S	9.87
ARCHA C S	9.7
HIBA THASNEEM	9.57
HIMA P ANIL	9.4
DEVIKA	9.4
AKASH KRISHNA E V	9.37
SHIFA BASHEER	9.33
VAISHNAVI G J	9.21
VARUN SUBRAMANIAN	9.07

OUR DEPARTMENT'S VISION

TO TRANSFORM YOUNG STUDENTS INTO RESPONSIBLE AND COMPETENT PROFESSIONALS WITH FOCUS ON DISSEMINATION OF KNOWLEDGE IN THE SPHERE OF ELECTRONICS, COMMUNICATION AND INSTRUMENTATION ENGINEERING

OUR DEPARTMENT'S MISSION

1. TO IMPART QUALITY ENGINEERING EDUCATION TO SATISFY THE NEEDS OF ACADEMICS, INDUSTRY AND SOCIETY

2. TO ACHIEVE EXCELLENCE IN TEACHING-LEARNING, RESEARCH AND INNOVATION IN THE AREA OF ELECTRONICS, COMMUNICATION AND INSTRUMENTATION ENGINEERING

3. TO FACILITATE NETWORKING WITH ALUMNI, INDUSTRIES AND INSTITUTIONS IN BRINGING ABOUT EXCELLENCE AND NOURISHING THE ENTREPRENEURIAL SKILLS OF THE STUDENTS

4. TO PRACTICE HIGHEST LEVEL OF PROFESSIONAL INTEGRITY, TRANSPARENCY AND ACCOUNTABILITY

PANEL MEMBERS

CO ORDINATOR

PROF. RENCYMOL M V

TEAM

JEEVAN KRISHNA S	S8 ECE
SIDHARTH SHIBU	S8 ECE
PARVATHI M	S8 AEI
SANA SITHARA	S8 AEI
ANAGHA UMESH	S6 ECE
DARIS BENNY	S4 ECE
ANAND P NAIR	S4 ECE
ARDRA S SHARMA	S4 AEI
SREEHARI R	S4 AEI
MEDHA B KURUP	S4 AEI
AADITHYA NARAYANAN P	S2 ECE
AKHILA P S	S2 ECE
SREE VISHNU VARDHAN	S2 ECE
RAJKRISHNA T R	S2 ECE
ASHNA J S	S2 ECE
DEVANANDANA JAYAKRISHNAN	S2 ECE
ANUPA P SHIBU	S2 ECE
TESA ABHILASH	S2 ECE
AAROMAL BS	S2 ECE
SAMUEL CIBI	S2 ECE
SISIRA THOMAS	S2 ECE
SEBLON BASIL HURTIS	S2 ECE
HELIZE P MATHEW	S2 AEI
GOKUL SUBASH	S2 AEI

SPECIAL THANKS TO

Dr. HARIS P A, HoD

ALL FACULTIES AND STUDENTS OF

DEPARTMENT OF ELECTRONICS AND COMMUNICATION