

Distinguished Guests of Honour at PESCE



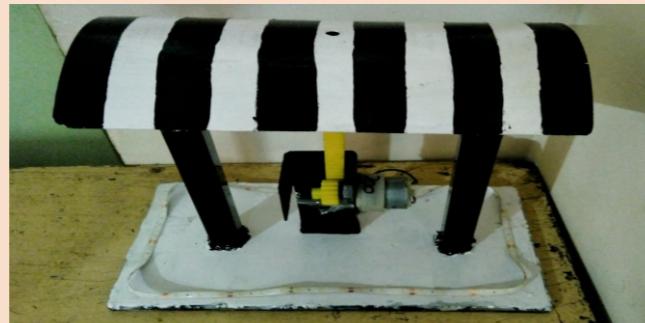
Graduated with B.S., Secondary Studies Education (Magna cum Laude) from State University of New York College at Buffalo, May 1991. He owns a Doctorate in the field of Political Science, with Major as World Politics & Minor in Research Methods & Statistics. He has more than two decades of experience in academic field. At present he holds a prestigious position as Associate Dean for Academic Affairs & Administration, at Binghamton University, Office of Institutional Research and Planning, handling responsibilities to develop academic programs and policies for engineering schools, curricular planning, ABET accreditation, space planning, enrollment planning, international initiatives and partnerships, and diversity and inclusion programs and so on. He manages an annual budget portfolio of approximately \$ 5.0 M. He has also held various prominent post like, Enrollment Management Consultant at Sun polytechnic University, Office of the President, Director of Institutional Research & Planning at Binghamton University, Office of Institutional Research and Planning & Research Analyst at the start of the career. He is on various leadership development and academic boards, rendering his professional service as chair, co-chair and member. He has vast publications in various journals of international repute and also been invited to delivery guest lecture in various esteemed institutes. He has also secured \$1.0M in funding for under represented minority graduate students from the National Science Foundation.



Dr.B.R Ravikanthe Gowda Dr.B.R Ravikanthe Gowda, IPS DIGP and Joint Police Commissioner (Traffic), Bangalore City. He did his B.E at P.E.S College of Engineering, Mandya, M.Tech at N.I.E, Mysore and D.Lit from Kannada University, Hampi. He was born on 4th August 1967. He hails from Besagara Halli village of Maddur Taluk, Mandya district. His father's name is Dr. Besagara Halli Rammanna and he was famous doctor and Kannada writer. His mother's name is Smt. Rajamma. Dr. B.R Ravikanthe Gowda has been awarded with Chief Minister Gold Medal Award twice in the year 2002 and 2007. He was at Director General (BPR & D) National level commendation role in 2019. He has served all over Karnataka and presently he is serving as DIGP and Joint Police Commissioner (Traffic), Bangalore City. We are happy and proud to mention that he is alumni of our college (1985 –1989). He is very prompt, sincere, dedicated and most disciplined officer.

Sample of Innovative Projects

Power Generation by Road Hump



Wireless Charging of Electric Vehicles



Revolution in traveling with Integrated Road safety system



Proud Alumni



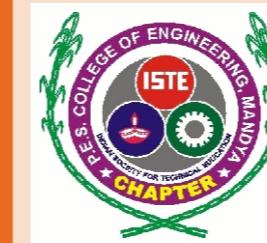
Sri Hemanth M P is currently working as Assistant Central Intelligence Officer, Ministry of Home Affairs (MHA), Government of India. He has completed his Bachelor of Engineering in the year 2009, from P.E.S. College of Engineering, Department of Information Science

Sri Hemanth M P and Engineering. Joined as guest lecturer at Government Engineering College, Ramanagara. Along with his work, he was also an aspirant of KPSC/UPSC exams to fulfil his dream of becoming an administrator for the amelioration of civil. Finally he got through the exam conducted by MHA during April 2010 and joined the premier National Internal Security Agency which has legacy of 132 years. With his Motto: "Nation first then comes the rest", he is serving the role with immense satisfaction, facing newer challenges every day and aiding to safeguard the internal sovereignty of our country. The organisation has given him good opportunity to travel all over the country and work in various states namely Delhi, Kolkata, Sikkim and presently serving in Kerala. He is working towards objective and wishes to secure the top ranked award 'Indian Police Medal' for the excellence in the line of my duties.

"Either you run the day or the day runs you."
-Jim Rohn

ISTE CHAPTER (S)

P.E.S COLLEGE OF ENGINEERING, MANDYA.



Eureka

A NEWS BULLETIN



Vol. 14

Issue : 1

November-2020

Key Achievement of PESCE

👉 NIRF 2020 Ranking is 147

STATE LEVEL CONVENTION



Students of ISTE Student Chapter participated at the 16th State Level Student Convention held at KSIT Bengaluru, they bagged prizes at various events. Sunad of 8th Semester has bagged 1st Place in "Code Correction" and Yeshwanth L M of 7th Semester secured 1st Place in "Paper Presentation"

Our Commanders



Sri. K.S Vijayanand, Chairman, PET®, Mandya, elected as Secretary of Karnataka State Union of Aided Engineering Colleges.



Dr. H V Ravindra, Principal, PESCE, Mandya, PET®, Mandya, elected as Treasurer of Karnataka State Union of Aided Engineering Colleges.



Dr. K M Jagadeesha Professor & HOD Department of Automobile Engineering, PESCE, Mandya, nominated as Executive Council Member of Visvesvaraya Technological University, Belagavi.

BEST STUDENT AWARD



Mr. Harshith Mohan

Mr. Harshith Mohan of VIII Semester of Electrical & Electronics Engineering Department has bagged the "**BEST STUDENT OF THE CHAPTER**" award for the year 2019-20 at the ISTE State Convention held at KSIT, Bangalore. He was also awarded with the "**Best Service Award**" for the year 2017-18 and "**Best Student Award**" by the college for the year 2018-19.

"Be happy. Its one way of being wise."
-Colette

👉 ARIIA 2020 Ranking is 02

**P.E.S College of Engineering
Don of Decade**



Retained **Rolling Shield** for Mandya district branch by **Indian Red Cross Society** for **consecutively 10th year for highest units of blood collected**. The Rolling Shield was received by Chapter Chairman Dr. B S Shivakumara along office bearers Dr. Veena M N, Prof. Sowmya Shree K M and Prof. Shankare Gowda along with the students.

ISTE DAY CELEBRATION



ISTE Chapter & Youth Red Cross Wing of P.E.S College of Engineering, Mandya, celebrated ISTE Day & World Red Cross Day on Wednesday **12th August 2020**. Principal Dr. H V Ravindra inaugurated the celebrations, presented awards and distributed prizes to the winners of various competitions. Chairman of ISTE Chapter Dr. B.S. Shivakumara presided over the function.

Principal's Message

The ISTE Chapter in our institute aims at creating, nurturing, and shaping the students as technical professionals and leaders. This aids in creating an inclusive and sustainable society from the national/international perspective. Although this year looks a little different from all other years due to the pandemic, still our students have adapted to wear masks, follow new protocols of social distancing and take up societal events viz, Swatch Bharath Abhiyan, Community Development Activities, Blood Donation Camps, etc. The ISTE Chapter in our college is the recipient of various honours and awards. Eureka is the yearly magazine bought out by our chapter to showcase the activities conducted by them, it adds interesting articles by students and faculties, also throws light on achievers of the college in various discipline and capacities. I am so impressed with the progression made by the chapter each day and wish all the best of luck to carry out the good job by its members and students.



Dr. H.V Ravindra

Chairman - ISTE Karnataka Section



Dr. Suresh D S
Chairman - ISTE Karnataka Section
Director, CIT Group of Institutions

Warm Greetings from Indian Society for Technical Education (ISTE) Karnataka Section!

I would like to express my deep congratulations to Dr. H. V. Ravindra, Principal and Dr. B. S. Shivakumara, ISTE Coordinator, and their team of P.E.S College of Engineering, Mandya for their efforts in bringing out the wonderful newsletter EUREKA which covers all the activities done under various professional societies specifically with respect to ISTE.

The various events organized by the Institute under the umbrella of ISTE are more appreciable by both the State level and National level ISTE. We wish all the very best to the editorial team of EUREKA, the Management and Principal of P.E.S College of Engineering, Mandya for bringing out the newsletter every year.

Wish you all great success!

President's Column

ISTE Chapters have gained momentum in performing the activities in spite of the unexpected "COVID BRAKE". In today's competitive world to have a "CAKE WALK" in the professional and personal life our students should master the "CAKE" i.e., Communication, Aptitude, Knowledge, Entrepreneurship. Of course, our students are very good in knowledge (Technical and General), but not up to the mark in others. Our chapters are making "Squirrel Service" by conducting lot of activities, Programs and competitions for its members keeping in mind the ultimate goal of "CAKE". Thus the result is good placement along with this year two of our student members have clinched first prizes in "**Coding Correction**" and "**Paper Presentation**" competitions of ISTE State Student Level Convention held at Bangalore. I am very much thankful to guidance, support and blessings of Dr. H. D Chowdaiah, Past Chairman, P.E.T®, Sri. K.S Vijaya Anand, Chairman, P.E.T ® and Principal and also our Rector Dr. H. V Ravindra.



Dr.B.S.Shivakumara

Finally, there is a quote on editing: "**First draft is black and white, editing gives the story color**" (by Emma Hil). I am very much delighted about the fruitful efforts of the editorial squad of "**Eureka**" under the novel leadership of Professor Pooja Nagpal who have added the colors to this "**Eureka**".

Chief Editor's Column

The editorial board is glad to release the current issue of "EUREKA". This ISTE newsletter provides a perfect platform to highlight the social activities and literary segment of the PESCE family. It is a snapshot of various activities undertaken for the contribution to the society by the faculty members and students working behind the scene, overtime round the clock, planning things from the smallest. The newsletter also presents the articles, achievements of students, alumnus and faculty members alike. The editorial board welcomes the comments and suggestions to improve the quality of newsletter. The present issue of newsletter should inspire all of us to come out of this pandemic and start a new beginning enlightened with hope, confidence and faith among us in the road ahead.....



Pooja Nagpal



Dr. H Ramachandra, Professor & Head, Department of Chemistry, PESCE, Mandya awarded as Best Teacher from Mandya District Kannada Sahitya Parishat Kendra



Professor **Uma S K**, Associate Professor Computer Science & Engineering, PESCE, Mandya awarded as Best Teacher from Mandya District Kannada Sahitya Parishat Kendra

EUREKA Editorial Committee - 2020

Editor: Prof. Pooja Nagpal
Co-Editor: Prof. Sowmya .B.P
Student Editors: Shashank B M
Vaishnavi M

Crowning of Champions

VR not Book Worms VR Honeybees ISTE Endowment Award -2020 Winners



ABHISHEK L
4PS16ME007
Mechanical Engineering
Endowment Medal

Smt.T.H. Mala & Dr. K.S.Srinivasan
Endowment Medal
CGPA: 9.33
Name & Address of Donor
Dr. K.S. Srinivasan, Bangalore



ANUSHREE U
4PS16AU002
Automobile Engineering
Endowment Medal

Dr. K.P. Srinivasa Setty
Endowment Medal
CGPA: 9.09
Name & Address of Donor
Dr. K.P. Srinivasa Setty Bangalore



HEMALATHA N
4PS16CV038
Civil Engineering
Endowment Medal

Smt. Nagamma & N.T. Cheluwegoda
Endowment Medal
CGPA: 9.53
Name & Address of Donor
Dr. N.T. Cheluwegoda



VASUDEVA RAO K R
4PS16CS131
Computer Science & Engineering
Endowment Medal

Sri. Puttaswamy Endowment Medal
CGPA: 9.33
Name & Address of Donor
Dr. P. Suresh Mysore



SWAROOP T R
4PS16IP034
Industrial & Production Engineering
Endowment Medal

Sri. M.K. Ramaiah Endowment Medal
CGPA: 8.98
Name & Address of Donor
Sri. M.K. Ramaiah Mandya



CHIRAG NARAYAN
4PS16IS007
Information Science & Engineering
Endowment Medal

Sri. Puttaswamy Endowment Medal
CGPA: 8.8
Name & Address of Donor
Prof. K.B. Boraiah, Mandya



BHAVYA R
4PS16EE006
Electrical & Electronics Engineering
Endowment Medal

Sri. Mulemachana Boregowda
Kallahalli, Endowment Medal
CGPA: 9.43
Name & Address of Donor
Prof. K.B. Boraiah Mandya



MEGHA M R
4PS16EC043
Electronics & Communication Engineering
Endowment Medal

Sri. Samartha Endowment Medal
CGPA: 9.42
Name & Address of Donor
Sri. Samartha Bangalore



MEGHA M R
4PS16EC043
Lady Topper In Electronics & Communication Engineering
Endowment Medal

Smt. N. Premalatha Endowment Medal
CGPA: 9.42
Name & Address of Donor
Sri. S. Narasimhamurthy, Mandya



ABHISHEK L
4PS16ME007
Overall Topper In Mechanical Engg. Science
Endowment Medal

Dr. K.P. Srinivasa Setty
Endowment Medal
CGPA: 9.33
Name & Address of Donor
Dr. K.P. Srinivasa Setty Bangalore



HEMALATHA N
4PS16CV038
Overall Topper In Civil Engg. Science
Endowment Medal

Sri. Chandrashekhar Endowment Medal
CGPA: 9.53
Name & Address of Donor
Sri Prakashan Bangalore



VASUDEVA RAO K R
4PS16CS131
Overall Topper In Computer Science & Engineering
Endowment Medal

Dr. Murali
Endowment Medal
CGPA: 9.33
Name & Address of Donor
Late P Srinivasaiah Endowment Medal



SAMMITH B.S
4PS16CS093
Topper in Engineering Mathematics
Endowment Medal

Sri Anniganahalli Thammaiahsetty
Endowment Medal
CGPA: 391/400
Name & Address of Donor
Dr. A.T. Eswara Professor Mathematics
Dept. GSSS, Mysuru.



CHANDANA A.C
4PS17IP004
Topper in Work Study & Ergonomics of B.E (I&P Engineering)
Endowment Medal

Sri B.L. Sathyaranayana
Memorial Endowment Medal
CGPA: 82/100
Name & Address of Donor
Dr. B.S. Shivakumara, Professor,
I&P Engg Dept. PESCE, Mandya



KRUPA K.A
4PS17IP012
Topper in Work Study & Ergonomics of B.E (I&P Engineering)
Endowment Medal

Sri B.L. Sathyaranayana
Memorial Endowment Medal
CGPA: 82/100
Name & Address of Donor
Dr. B.S. Shivakumara, Professor,
I&P Engg Dept. PESCE, Mandya



BI BI MISHA
4PS18CV018
Overall Topper In Surveying
Endowment Medal

Smt. Puttalingamma &
Sri Honnegowda Endowment Medal
CGPA: 185/200
Name & Address of Donor
Sri M Shakaregowda Associate Prof.
Civil Dept PESCE Mandya



Dr. H.D. Chowdaiah
Former Chairman, PET(R)
Merit Awards Donor



Dr. H.D. Chowdaiah Merit Awards - 2020 Winners

Great Ground Workers

Office Bearers of ISTE PESCE Faculty Chapter



Rector:
Dr. H V Ravindra
Principal



Executive Committee & Chairman:
Dr. B S Shivakumara
Dept. of I & P Engineering



Secretary & Treasurer:
Dr. M N Veena
Dept. of MCA

Members



Dr. N Jagadeesha
Dept. of Automobile Engineering



Sri. S Naveen Kumar
Dept. of Civil engineering



Smt. B P Chaitra
Dept. of CS & Engineering



Sri. A S Mahesh Kumar
Dept. of E&C Engineering



Sri. B N Harish
Dept. of E&E Engineering



Sri. M Sreenivasa
Dept. of I & P Engineering



Sri. B S Putta Swamy
Dept. of IS & Engineering



Dr. K J Mahendra Babu
Dept. of Mechanical
Engineering



Smt. Pooja Nagapal
Dept. of MBA



Dr. S R Nayaka
Dept. of Mathematics

YRC:

President : Kamalraj M, Department of MECH & E

Secretary: Ganesh Putran, Department of E & C

Treasure: Yashaswini S, Department of CS & E

CYLING TO THE PEAK (MANALI-LEH-KHARDUNGLA CYCLING EXPEDITION 2018)



The adventurous Manali-leh highway being the dream destination for many, known as the "silk route" for cyclist and bikers, for them it needs great courage, will power, and the urge not to quit. During this 490km plus the 80kms of the mighty "KHARDUNGLA" Worlds Highest all-Weather Motorable Road, you are into test every second facing the challenges like cycling in the high altitudes with the risk of AMS (Acute Mountain Sickness) which may lead to death if not acclimatized properly, freezing temperatures, uncertain weather, rains, hail, snow storms, breathlessness and long stretches of winding roads. Rare animals such as Yak, Marmot, Wild Ass, Double humped camel and Red fox can be sighted. This is a life changing

experience as it teaches you patience, to compete with your own limits, staying at tents where sleeping bags are your beds and your bagpack are your pillow and your tent mates are your family and be one simple human satisfied with the basic needs which would be your luxury during the expeditions and one important thing I learned is the human body can go as far as your mind will let it.

We the group of 81 gladiators dared to conquer all the difficulties and reach our destination. Covering the distance in 10 though days passing through 5 highest passes (Rohtang La, Baralacha La, Nakee La , Lachung La , Tanglan La) going up to 18,380ft at Khardungla Each of these passes is unique in their own way : Baralacha La – one of the most loopy , Nakee La and Lachung La are twin brothers standing high next to each other, Rohtang Pass is the most unpredictable and moody of them , one of the toughest to cross "The Tanglangla" and the stunning view of 22 curves on top of the Gata Loops and The Mighty Khardungla waits like an old man for his children to come and give everyone their own stories to tell . Staying at an average of 13,000ft – 14,000ft everyday where there is hardly any civilization , crossing furious Nala's (stream) and bridges , Deadly down hills, zero tarmac roads and the beautiful sights throughout can make anyone a king of this own world inspite all the pains. The best part of the whole trip was getting stuck at the hailstorms at more plains, snowstrom at khardungla where you are rescued by a stranger and playing cricket at 14,000ft on NH3!! And realise that you become your own superhero in this journey, pushing yourself harder than you ever thought you could , you discover that your legs , lungs and mind itself are the greatest superpower you could possess.

Suhruith MV Jamadagni

7th semester EC Department

Sample of Simple Service

Activities of Youth Red Cross Wing



Dr. H.V. Ravindra
Chairman & Principal



Dr. B. S. Shivakumara
Programme Officers



Dr. B. Shanmukha
Programme Officers Youth Red Cross Wing

The Red Cross is an international humanitarian service organization dedicated to the cause of suffering humanity both in times of war and peace since eight decades. The fundamental principles of it are **Humanity, Impartiality, Neutrality, Independence, Voluntary service, Unity & Universality**. The Indian Red Cross Society was established in the year 1920. The Youth Red Cross Wing is the Student Wing of Indian Red Cross Society and is fulfilling its objectives by conducting activities related to Health, National integrations, Emergency relief work, Drug abuse, Communal harmony, Blood donation and grouping, Women welfare etc. In short, the essence of the organization is "**Seva Paramo Dharmaha**" or "**Service is our Motto**". Philanthropist and honourable Chairman PET®, Dr. H. D. Chowdaiah, inaugurated the Youth Red Cross Wing of the P.E.S College of Engineering on 3rd September 2012 and kindled the spark of service mindness amongst the students in the Golden Jubilee Year. This year the College Youth Red Cross Wing has organized "**2 Trekking Programmes at Thadiyandamol and Nishani Motte Hills**" and also created awareness on "**Activities of Red Cross and Blood Donation**" programme. A Voluntary Blood Donation (**Collected 204 units of blood**) & Grouping Camp have been organized. "**Swachh Bharath Abhiyaan**" was carried out at the "**Santhe Kasalagere**" a village in Mandya District.

Two Quiz Competitions related to "**General and COVID Awareness**" was organized. **Essay Competition** on various topics like, "Drones in daily life", "Is humanity & Employment under the threat of AI? Does Automation really help and so on? Along with it Patriotic Songs singing competitions were also conducted. **Youth Cross Wing** celebrated the '**Yoga day**' to highlight the "Importance of Yoga in safeguarding the health". Principal Dr. H. V. Ravindra inaugurated the celebrations by lighting the lamp. Wing has also celebrated "**World Red Cross Day**" and honoured the outstanding members by presenting "**Best Service Award**". Prizes were also distributed on the occasion to the winners of the various competitions organized by the wing.



Our Gold Mine

Technical Education Quality Improvement Programme (TEQIP)

P.E.S College of Engineering has the privilege of getting identified and selected by NATIONAL PROJECT IMPLEMENTATION UNIT [NPIU], A Unit of Ministry of Human Resource Development (MHRD), Govt. of India, for Implementation of [World Bank Assisted Projects in Technical Education], as one of the eligible autonomous institutions in India. Hence, our institution is considered for Technical Education Quality Improvement Program (TEQIP) project Grant of Rs.10.00 Crore under TEQIP-II, Component1.1 during the period 2011-2017 and Rs.7.70 Crore under TEQIP-III, Component1.3 for the period 2017-

Dr. B Dinesh Prabhu
TEQIP Coordinator

The TEQIP-II is to strengthen institution to produce more employable and higher quality engineers and prepare more post graduate students to reduce faculty shortage. Under TEQIP-III, we are the mentors, under Twinning Arrangements to Build Capacity and Improve Performance of institutions for one of the NPIU assigned Institute (UNSIET, VBSPU, Jaunpur, UP). With comprehensive monitoring and able guidance of our Honorable Chairman-G.C. & Chairman of P E T® Dr. H. D. Chowdaiah, Respected Chairman BoG & Director of P E T® Dr. Ramalingaiah, beloved TEQIP Director & Principal of our Institute Dr. H. V. Ravindra the TEQIP Project II & III is being effectively utilized and implemented at our Institution. Of course, this proud achievement is possible with complete support of faculty, staff and established infrastructure of our Institute.

Strengthening of Fe(Iron)male

Women's Empowerment Cell Activity



Women Empowerment Cell of P.E.S College of Engineering, Mandya is established with the motto of "**En Route towards Self-Empowered Women**". The cell's objective is to create awareness among girl students, women faculties and staff members on the issues related to their rights and duties towards gender equality, to provide them with a platform to share their experience/views regarding their status in the society and also to empower, equip/uplift them intellectually, socially through series of programs like lectures, seminars, awareness camps and other welfare activities.

Reinforcing Academic Strength

Congratulations to PhD awardees - 2019-20



Dr. Mahesh A S, Associate Professor, Post Graduate Department of Management Studies, has been awarded PhD from Rayalaseema University, Kurnool in the month July 2019. The topic of the research is **"Career Management in Manufacturing Sector a Case Study of Select Industries in Mysore District- Karnataka"**. Under the guidance of Dr. B V Narsimham, Professor, PESCE, Mandya.



Dr. Rudreshi Addamani, Associate Professor, Department of Mechanical Engineering, has been awarded PhD from Visvesvaraya Technological University, Belagavi in the month January 2020. The topic of the research is **"Optimization of Process Parameters and Monitoring the Status and Breakage of Weld using Multisensory Approaches for Pulsed Gas Metal Arc Welding (P-GMAW)"**.

Under the guidance of Dr. H.V. Ravindra, Professor, Department of Mechanical Engineering, PESCE, Mandya.



Dr. Manjunath R Assistant Professor, Department of Electronics & Communication Engineering, has been awarded PhD from University of Mysore, Mysore, in the month September 2019. The topic of the research is **"Development of an Algorithm for Early Detection of Plus Disease in Retinopathy of Prematurity"**. Under the guidance of Dr. H S Sheshadri, Professor, Department of Electronics & Communication, Engineering, PESCE, Mandya.



Dr. N. Jagadeesh, Associate Professor, Department of Automobile Engineering, has been awarded PhD from Anna university, Chennai, Tamilnadu, in the month January 2020. The topic of the research is **"Investigations on Aluminium Nano-Hybrid Composite Piston Rings for Diesel Engines"**. Under the guidance of Dr. A.P.Senthil Kumar, Professor, Dept. of

Automobile Engineering, Anna University, Chennai, Tamil Nadu.



Dr. Mahendra Babu K J, Assistant Professor, Department of Mechanical Engineering, has been awarded PhD from Visvesvaraya Technological University, Belagavi in the month October 2019. The topic of the research is **"Experimental and Numerical Investigation on Fluid Flow Performance of Multi Hole Orifice"**. Under the guidance of Dr. Gangadhara Gowda, Professor, Department of Mechanical Engineering, PESCE, Mandya.



Dr. B. Dinesh Prabhu, Associate Professor, Department of Automobile Engineering, has been awarded PhD from Visvesvaraya Technological University, Belagavi in the month July 2020. The topic of the research is **"Investigations on Tribological Properties of Particulate Filled Polymeric Composite"**. Under the guidance of Dr. J Venkatesh, Professor, Department of

Automobile Engineering, PESCE, Mandya.



Dr. Sanjay H M, Associate Professor, Department of Information Science and Engineering, has been awarded PhD from Siddhartha Academy of Higher Education Deemed to be University, Tumkur, in the month of October 2019. The topic of the research is **"Algorithmic Aspects of Security Auditing among Multiagents to Acquire Trust Access Control in Hybrid Cloud"**. Under the guidance of Dr. C. D. Guruprakash, Department of Computer Science and Engineering, SSIT, Tumkur.



Dr. B. M. Thammanna, Associate Professor, Department of Physics, has been awarded PhD, from Karpagam Academy of Higher Education, Coimbatore, in the month of September 2020. The topic of the research is **"Synthesis, Structural Characterization and Luminescence Studies of MgTiO₃"** under the guidance of Dr. Senthil Kumar, Associate Professor, Department of Physics, Karpagam Academy of Higher Education, Coimbatore.



Dr. Revanesh M, Assistant Professor, Department of Electronics & Communication Engineering, has been awarded PhD from Visvesvaraya Technological University, Belagavi in the month October 2020. The topic of the research is **"Some Novel Algorithms To Enhance Security In WSN"**. Under the guidance of Dr. V. Sridhar, Professor (Emeritus), Dept. of Electronics & Communication, Engineering, NMIT, Bangalore.



Dr. Gurupavan H R, Assistant Professor, Department of Mechanical Engineering, has been awarded PhD from Visvesvaraya Technological University, Belagavi in the month December 2019. The topic of the research is **"Comparative Study of Machining Performances in Wedm of Composite Materials using Machine Vision System"**. Under the guidance of Dr. H V Ravindra, Professor, Department of Mechanical Engineering, PESCE, Mandya.

Research is creating new knowledge
-Neil Armstrong



Dr. Raghu S, Assistant Professor, Department of Industrial Production & Engineering, has been awarded PhD from Visvesvaraya Technological University, Belagavi in the month December 2019. The topic of the research is **"Synthesis of Aluminum Based Composites and Effect of Forging on Mechanical Behavior, Fracture and Wear"**. Under the guidance of Dr. H. M. Nanjunda Swamy, Professor & Head, Department of Industrial Production & Engineering, PESCE, Mandya.

ISTE CHAPTER(S)

P.E.S College of Engineering, Mandya

In retrospect (Simhavalokana) Activities of the Year 2019-20

Report of Overall Activities of the Year 2019-20



Dr. M.N. Veena
Secretary

| Sl. No | Date | Activities | Students, Staff & Beneficiaries |
|--------|----------------------|--|---------------------------------|
| 1 | 14.08.19 | Distributed "Eureka" to create awareness on the activities of ISTE at Orientation programme | 1100 |
| 2 | 24.08.19 | Release of news letter "Eureka" Volume 13. ISTE endowment awards were presented to meritorious students of at Graduation day | 720 |
| 3 | 30.08.19 | A meeting of the EC members of ISTE Student Chapter was held. The Secretary enlightened the members about purpose and importance of society. | 52 |
| 4 | 12.09.19 | A quiz competition on aptitude, basic maths and general knowledge was conducted | 285 |
| 5 | 15.09.19 | Essay writing competition was conducted on trending topics: i) Drones in daily life ii) Is humanity & employment really under the threat of AI? iii) Does Automation really help? | 52 |
| 6 | 13.10.19 | Trekking camp was organized at Nishani Motte Hills, Karnataka under the guidance of Trekking experts. | 50 |
| 7 | 16.10.19 | Voluntary Blood donation camp was organized at P.E.S College of Engineering, Mandya. 204 units of blood were collected. Professor Dr.K.Narasimhachary and Smt. Meera Shivalingaiah, Chairman, Indian Red Cross Society, Mandya District Branch inaugurated and motivated the students for donations. | 204 |
| 8 | 16.10.19 | 204 Blood groupings were done at P.E.S College of Engineering, Mandya | 204 |
| 9 | 19.10.19 | A talk & photo exhibition on adventure have been organized from the members of the youth hostel association of India. | 112 |
| 10 | 31.10.19 | Received Rolling Shield from Mandya District Branch of Indian Red Cross Society for highest units of blood collected | 210 |
| 11 | 5.11.19 | Dr. H.D Chowdaiah Chairman P.E.T (R) and Principal Dr H.V Ravindra Felicitated the students for retaining the Rolling shield of Mandya District Branch of Indian Red Cross Society for highest units of blood collected | 20 |
| 12 | 10.11.19 | A Swacch Bharath Abhiyan was organized at Santhe Kasalagere a Village | 60 |
| 13 | 09.12.19 18.01.20 | Trekking was organized to Tadiyandamol, Coorg under the guidance of Trekking Experts An entertainment program was organized for the members of ISTE & Public by staging a drama "Sri Krishna Geethopadesha" | 50 350 |
| 14 | 26.02.20 | Open Mic Competition was organized at the new open- air theatre which had both singing and instrumental competition | 54 |
| 15 | 21.6.20 | Yoga day was celebrated & Principal Dr. H.V Ravindra inaugurated the celebrations | 50 |
| 16 | 29.07.20 | Online Quiz on COVID-19 awareness has been organized Principal Dr. H.V Ravindra inaugurated the Program | 120 |
| 17 | 12.08.20 | Celebrated the ISTE day Principal Dr. H.V Ravindra inaugurated the celebrations | 60 |
| 18 | 12.08.20 | Honored of past EC Members of ISTE for their valuable Services | 12 |
| 19 | 12.08.20 | Honored students by presenting "Best service Awards" | 6 |
| 20 | 12.08.20 | Distributed prizes to the winners of general quiz, essay, singing & quiz on Covid-19 awareness | 52 |

"Well done is better than well said."
-Benjamin Franklin

We are Leaders!

(Innovation distinguishes between a leader and a followers-Steve Jobs)

Winners of Technical Projects Competition-2020

(Sponsored by TEQIP Phase -3)

| Prize | Title of the Project | Name(s) of the Student | Name of the Guide |
|--------------------------------|---|---|-----------------------|
| B.E(Automobile) | | | |
| I | Power generation by road hump using rack and pinion mechanism (prototype) | Sanjay N, Sharath K J, Thejorashmi H S Arun Kumar H S | Dr. B Dinesh Prabhu, |
| II | A Prototype for a Vehicle with Smart Braking System and Accident Monitoring Device using GPS and GSM module | Pushpak Gowda R Sanchana H S, Sathish Kumar B , hreyas S | Dr. N Jagadeesh |
| B.E(Civil) | | | |
| I | Determining the effect of addition of Glass fibers in dense Bituminous macadam | Sindhu G S, Sinchana H, R Laltlankima, Deepak J, Somanath K | Sumanth S. |
| II | Study on model Footing resting on 2d and 3d einforced Sand bed using Plastic waste | Hemalatha N, Yamuna M L Kavana B S, Pavanashree Y H Rakshitha R | Avinash N. |
| III | An Experimental Study on Bacterial Concrete using Bacillus Subtilis and Bacillus Megaterium | Nischitha M, Irene Jose Sowjanya S V, Gurulingappa Prashanth.B.M | Rashmi M.P. |
| M.Tech(CADS) | | | |
| I | Experimental Investigation of Sugarcane bagasse Ash as a value added material on Compressive Strength of masonry Prism | Shubhavinaya A S, Ravindra M.L, Sachitha H.D Darshan .P | Lakshmi P S |
| B.E(CS&E) | | | |
| I | Smart way to clean city | Harshith S, Nutan P Shashank M Shivasharan | S.K Uma |
| II | GDP Analysis and Prediction | Sunad K, Varun Achar M N Nanda Kumar V, Namratha M A | V.Chethankumar |
| III | Revolution in traveling with integrated Road safety system | Sanjay N.S, Sammith B.S, Nived B, Sowmik B | Deepika |
| M.Tech(CS&E) | | | |
| I | Voice disorder detection using machine learning based on MFCC features | Arpitha M S | Dr.Nagarathna |
| B.E(E&C) | | | |
| I | Paddy Crop Disease Detection using Machine learning | Prajwal gowda B. S, Nisarga H.A, Rachana M Shashank S | B.S Sahana Raj |
| II | 3D Holographic and Traffic Analysis Using Machine Learning | Shubham Verma, Kaniti Sagar, Manoj S Pooja.S | Kumar N Krishnamurthy |
| III | Brainwave Controlled Automated Wheelchair | Navyashree M, Chandana N, Madhura B N, Nisha U N | Dr. M B PunithKumar |
| M.Tech (VLSI) | | | |
| I | IOT Based Asthma Detection And Diabetes Detection using Machine Learning Algorithms | Rakshitha G V | M. J. Anand |
| B.E(E&E) | | | |
| I | Fabrication of bio chemical Battery for home automation | Chandini P R, Harshitha SJayasurya J, Lakshmana K | D.M.Srinivasa |
| II | Automatic solar panel cleaning robot | Ajmal Shariff Akash R P Arshad Ahmed , Ifthekhar Ahmed | B.N. Harish |
| B.E (I&P) | | | |
| I | Design and Fabrication of Wire Peeling Machine | Fabin Jenisha J, Poornima M S , Sachin R , Ravikumar S | Dr.B.S Shivakumara, |
| II | Designing And Developing The 3d Model Of Arduino Controlled Robotic Arm" | Karthik M, Sujanashraya S Sunita Mallikarjun Nalatwad Swaroop T R | Dr. N L Muralikrishna |
| B.E(IS&E) | | | |
| I | Vision-based text entry using morse code generated by eye gestures | Adarsh S Koundinya Gowtham S, Prathik R Sai S Poojith | T M Geethanjali |
| B.E(Mechanical) | | | |
| I | Design and analysis of electric go – kart | Yashas N Rjl, Yashwanth Gowda K S, Yogenda H S Shashank R Gowda | Dr.K J Mahendra babu |
| II | Design and fabrication of Forest fire detection Robot | Abdul Zubair, Bharath S Harsha P, Syed Muheen | K N Pavan |
| III | Characteristics evaluation of mechanical properties of hybrid bio composites fabricated with hand layup technique | Kumara M, Naveen N Nikhil V N, Nikhil Kumara T S | Dr.M.Sadashiva |
| M.Tech (CIM) | | | |
| I | Effect of Various Wire Electrode Materials on the Performance of Wire Electrical discharge Machining of Al/SiC Composite Material | Anilkumar M N | Dr.H R Guupavan |
| M.Tech (Machine Design) | | | |
| I | Vibration and noise signal analysis to detect the gear teeth damage in a gearbox with austempered ductile iron as gear material | Raghava Madhyastha P | Dr.S.L Ajit prasad |
| MBA | | | |
| I | The Impact Of High Performance Work Practices On Employee Engagement At Selected IT Company At Bangalore | Nisarga G S | Pooja Nagpal |
| MCA | | | |
| I | I.O.T Based smart agriculture monitoring system | Swaraj C M | K.M.Sowmyashree |
| II | Traffic Signal Monitoring and controller system | Indusree V D | Dr. M. N.Veena |

Dr. B.S. Shivakumara

Dean(Industry Institute Interaction)

"The more we do the more we can do."
-William Hazlitt

Dr. H.V. Ravindra

Principal

Current to Current Affairs

Artificial Intelligence and Data Science Approach to avoid COVID-19

"Wash your hands, do not touch your eyes and nose, wear a mask, maintain distance from everyone", tedious we do not when this comes to an end. Artificial Intelligence uses the technology of powerful algorithms which then processes the data, thus identifying patterns. Here some of the applications of Artificial Intelligence (AI) avoid Covid-19. Data Science can give accurate pictures of coronavirus outcomes. BluDot AI Company of Canada developed AI smart glasses; security guards wear this to scan the temperature of hundreds of people in less time without making contact. It contains temperature measurement technology using computer vision. The same technology is implemented to surveillance CCTV used in public transportation like bus, train, etc. Another application AI chest screening that can highlight lung abnormalities in chest X-ray scan and avoids Covid-19 risk faster than human radiologists. AI implemented drones and robots are used for contactless delivery, to spray disinfectants in public areas, checking symptoms and dispensing hand sanitizer foam and gel, to serve food and medicine to patients. Robot dog called "Spot" helps doctors to access patients in the US. In India, one of the AI applications for contact tracing is the "Aarogya Setu App". The app works based on an active Bluetooth connection and GPS. Gives information when you have been in close contact with a Covid-19 positive person. Maintains data security, uses data analysis to inform if you have been near a hotspot. Indian Institute of Science (IISc), Bangalore and IIT's developed applications such as "GoCoronaGo" and "Sampark-o-meter" have also been developed for contact tracing. Telangana state implemented AI cameras for identifying people who are mask violators. In Chattisgarh, AI proved a success by online training of the medics for controlling Covid-19. In Kerala, robots are used in hospitals, office buildings, etc. Data science plays a vital role in collecting and maintaining data. Medical professors and others get accurate up-to-date information about coronavirus from trusted bodies like the US centers for disease control and prevention and the world health organization. From this we can get a statistic number of confirmed cases, recoveries, etc.



Prof. Sowmya BP

Assistant Professor

Department of MCA, PESCE, Mandya

Students Engagement and Faculty Experience in the Era of COVID-19

India's fight against the COVID-19 outbreak from just a single case in the country to more than 88.74 lakh (17/11/2020), as on today has been unique one. India started its journey from "Janata Curfew" to total lockdown and till date we are slowly lifting the lockdown in phased manner. Everything around us has changed, work from home is the new norm, online shopping is trending, so how come imparting knowledge be left behind. The technology adoption has become bliss for smooth execution towards imparting of knowledge by the faculties along with accessing and learning by students in the education sector. The teaching has gone online along with student's assessments too. In the preceding times of COVID – 19 it was a challenge for faculty members to take classes from the remote places of their home, but they took this like a challenge and stole this opportunity to go for virtual learning and teaching. Faculties are using various platforms like Google classrooms, Google Meet, Zoom, LMS Professor, Skype meet up, You Tube and so on, not only to conduct their classes for students, but also to arrange guest sessions, FDPs, MDPs, webinars, students mentoring, club activities and various other competitions for faculty and students alike. Faculties feel there is no much difference between online and offline sessions as they can share PPTs, play videos and use board and marker as regular classrooms. Faculty experiences has influenced faculty engagement and commitment. Student engagement is always considered as challenge in the past, present or in future, whether its offline or online. At the outset of online modes, faculties had lots of dissonance towards student's engagement during a lockdown. But this slowly disappeared once they started taking sessions online; to their surprise they saw the attendance going up to almost 100% in ongoing classes, while engaging them virtually. Various initiatives apart from online classes' students got accesses to free Swayam courses, Coursera, E-Library and E-Books, etc. have been shared with students to enhance their knowledge through digital platform and keep them engaged digitally. Does the educationalist, policymakers take this innovation at the budding stage and start implementing strategic changes in phased manner for using technological advancement for faculty and student engagement.



Prof. Pooja Nagpal

Assistant Professor

Post Graduate Department of Management Studies,
PESCE, Mandya.

Unforgettable Impressions

Commanding of Coding



Receiving the 1st Prize for "Coding Correction" Competition at ISTE State Student Convention

Tapping of Talents



Honouring of ISTE Volunteers

I & U Can delink the Spreading of VIRUS



Inauguration of Quiz on COVID -19

Not Nero, but Hero



Singing competition

Preaching of Proper Programs



Inaugurating the Celebrations of ISTE Day

Praising the Prize Winners



Felicitating the Prize winners of Hackmania Competition

Cleanliness is Holiness



Swachcha Bharath Abhiyaan

Hunting of Brains



Quiz Competition

Clicking the Flickering Ideas



Inauguration of Innovative Projects Presentation Program

Cuckoo's Couple



Singing Competition

We are always no. 1



Receiving the 1st Prize for "Paper Presentation" at ISTE State Student Convention

Mass of Current Achievers



Innovative Projects Presentation Program of MCA Department

"Opportunities don't happen. You create them."
-Chris Grosser

"What you do today can improve all your tomorrows."
-Ralph Marston