



Dr. Ambedkar Institute of Technology

(An Autonomous Institution Aided by Govt. of Karnataka)

Affiliated to Visvesvaraya Technological University Belgaum

Mallathalli Bangalore 56

NEWS LETTER

Apr.-Dec. 2021



Our Vision

To create Dynamic, Resourceful, Adept and Innovative Technical professionals to meet global challenges

HONOURABLE FOUNDER SECRETARY

Late Shri M H Jayaprakash Narayan

Founder Secretary
Panchajanya Vidya Peetha Welfare Trust (R)



Dr. Ambedkar Institute of Technology was established in the year 1980 by Late Sri M.H. Jayaprakash Narayan, Ex-MLA, Ex-Syndicate / Senate Member of Bangalore University and Founder Managing Trustee of PVP Welfare Trust and Secretary of Dr. Ambedkar Institute of Technology, was a visionary and an educationist. He was a strong follower of the principles of Bharatha Ratna Dr. B.R. Ambedkar, he came from a very humble background. He fought relentlessly for the upliftment of the downtrodden. He believed that education is the main path for the emancipation of the oppressed classes and started a number of educational institutions to cater to all levels of education in Bengaluru.

Visionaries of Panchajanya Vidya Peetha Welfare Trust



Sri S. Mariswamy. IPS
Chairman, PVPWT
Director General of Police (Rtd.) GoK



Sri A R Krishnamurthy
B A, PG Dip. in Journalism.
Managing Trustee/ Secretary PVPWT
Ex- MLA/Ex- Chairman Dr. BRADC (Cabinet Rank) GoK



Dr. B N Umesh M Tech. PhD
Treasurer, PVPWT



Sri S Shivamallu B E, FIE
Trustee, PVPWT
Director KPTCL (Rtd.), GoK



Dr. M Mahadeva Ph D
Trustee, PVPWT
Former Faculty, ISEC
Ex-Chairman, KPSC GoK

From the Principal's Desk



Greetings to all the readers!

The National Education Policy NEP 2020 is very optimistically being implemented in higher education institutes across the state. The 2021-22, the first NEP 2020 batch of students is being admitted and they will be provided the holistic growth that the society is looking for. The academic orientation is more towards industry internship, multidisciplinary approach and improving both life skills and domain skills. Dr. AIT being autonomous institute is fully exploiting and implementing all the academic aspects of NEP 2020.

Warm Regards

Dr. M Meenakshi

Our Mission

- * To offer state of the art undergraduate, postgraduate and doctoral programs in the fields of Engineering, Technology and Management.
- * To generate new knowledge by engaging faculty and students in research, development and innovation.

Founder's Day Dec. 21

Honourable trustees , chairman Sri. S Mariswamy, secretary Dr. M Mahadeva, treasurer Sri S Shivamallu, Sri AR Krishnamurthy and Sri Dr. B N Umesh joined by Principal Dr. C Nanjundaswamy, Deans and all the faculty members paid their respect to the founder Sri. MH Jayaprakash Narayan at the sacred samadhi of JPN



PUBLICATIONS

- ◆ Madhu B **Computer Vision Based Smart Music Player** *International Journal of Innovative Research in Computer and Communications Engineering* ,July 2021, Volume 9,issue 7.
- ◆ Mamatha S K **Graph Theory based Segmentation of MR Images for Brain Tumor Detection** *International Journal of Pattern Recognition and Image Analysis Research in Computer and Communications Engineering* ,July 2021, Volume 9,issue 7.
- ◆ Harish G **A Machine Learning Model for Prediction of Diabetes and Hypertension Using Ensemble Learning Approach** *International Journal of Emerging Technologies And Innovative Research An International Scholarly Volume 8, Issue 9, September 2021, (ISSN-2349-5162).*
- ◆ Harish G **Detection of Traffic Rules Violation By Vehicles Using Machine Learning Model** *International Journal of Wutan Huatan Jisuan Jishu Volume 17,Issue 10 October 2021 ,ISSN No:1001-1749.*
- ◆ Harish G **COVID-19 Vaccination Twitter Data Analysis For India** *International Journal of Research in Engineering and Science Volume 9,Issue 11, 62-69.*
- ◆ Smitha Shekar B **A Machine Learning Model for Prediction of Diabetes and Hypertension Using Ensemble Learning Approach** *International Journal of Emerging Technologies And Innovative Research An International Scholarly Volume 8, Issue 9, September 2021, (ISSN-2349-5162).*
- ◆ Smitha Shekar B **Detection of Traffic Rules Violation By Vehicles Using Machine Learning Model** *International Journal of Wutan Huatan Jisuan Jishu Volume 17,Issue 10 October 2021 ,ISSN No:1001-1749.*
- ◆ Smitha Shekar B **COVID-19 Vaccination Twitter Data Analysis For India** *International Journal of Research in Engineering and Science Volume 9,Issue 11, 62-69.*
- ◆ Veena Potdar **Analysis of Vocal Pattern to Determine Emotions using Machine Learning** *International Journal of Engineering Research and Technology IJERT, Volume 10, Issue 11 , November – 2021.*
- ◆ Lavanya Santhosh **Analysis of Vocal Pattern to Determine Emotions using Machine Learning** *International Journal of Engineering Research and Technology IJERT, Volume 10, Issue 11 , November – 2021.*
- ◆ Veena Potdar **Smart Irrigation Model Using IOT** *International Journal of All Research Education and Scientific Methods (IJARESM Volume 9, Issue 7, July -2021, ISSN: 2455-6211*

- ◆ Lavanya Santhosh **Smart Irrigation Model Using IOT** *International Journal of All Research Education and Scientific Methods (IJARESM Volume 9, Issue 7, July -2021, Impact Factor: 7.429, ISSN: 2455-6211*
- ◆ Madhu B **Plant Leaf Classification using MobileNetV2, a Transfer Learning Approach** (Elsevier) *International Conference on Artificial Intelligence and Energy Systems December 08,09 2021 at St Joseph College of Engineering and Technology , Palai, India*

WEBINARS ORGANISED

Finance 101 for Entrepreneurs on 15th May 2021. coordinated by Dr. Gowrishankar S., Mr. Srinivasa A. H., Mr. Praveena M.V., Ms. Lavanya Santhosh, and Ms. Veena A.

Industry Readiness and Internship: Focus and Objectives in association with Computer Society of India on 28th May 2021 coordinated by Dr. K.R.Shylaja, Ms. Veena Potdar, Ms. Asha K N, Ms. Asharani K P, Ms. Lavanya Santhosh

Advance AI for Bio Imaging on 11th June 2021 Dr. Prabha R, Mrs. Arathi P, Mrs. Vinutha M. S, Mrs. Pushpaveni H. P, Mr. Chidanandan V

Cyber Security and Ethical Hacking on 2nd November 2021 coordinated by Dr.Gowrishankar S., Mr.Srinivasa A. H., Mr.Praveena M. V., Ms.Asha Rani K. P., Ms.Veena

Effectively Protecting Innovations in India on 18th November 2021 coordinated by Dr.Gowrishankar S., Mr.Srinivasa A. H., Mr.Praveena M. V., Ms.Asha Rani K. P., Ms.Veena

Exploring the World of Containers on 3rd December 2021 coordinated by Dr.Gowrishankar S., Mr.Srinivasa A. H., Mr.Praveena M. V., Ms.Asha Rani K. P.,

Lecturers/Talk Delivered outside

Dr.Smitha Shekar B **Java Programming for Prescribed VTU Syllabus** at G. Madegowda Institute of Technology, Bharthinagar, Mandya on 03-08-2021 and 04-08-2021.

Dr.Smitha Shekar B **Clustering Algorithms in Data Mining** at Maharaja Institute of Technology, Mysore from 09-08-2021 and 11-08-2021.

Dr.Smitha Shekar B IoT and It's Applications for prescribed VTU syllabus at G. Madegowda Institute of Technology, Bharthinager, Maddur Taluk, Mandya District on 10-12-2021.

Dr. Harish G Data Structures and It's Applications for Prescribed VTU Syllabus at G. Madegowda Institute of Technology, Bharthinagar, Maddur Taluk, Mandya District on 09-12-2021.

Awards

Dr. Siddaraju, Professor & Head got “**Research Excellence Award**“ in Global Annual Education & Research Excellence Awards 2021 on December 18th, 2021, by Centre for Professional Advancements.

Dr. Nandini N, Associate Professor got “**Best Academician Award**” for being a source of motivation and inspiration to the teaching community by Global Iconic Education Award on 26th November 2021.

PhD Awardees

Dr. Sham Shekhar Patil was awarded with Ph.D from VTU, Belgaum in May 2021.

Dr. Asha was awarded with Ph.D from Bharthiyar University, Coimbatore and Tamilnadu.

Dr. Gowrishankar S. obtained his Master of Business Administration (MBA) in Marketing Management from Indira Gandhi National Open University (IGNOU), New Delhi.

Dr. Madhu B was awarded with Ph.D from VTU, Belgaum in December 2021.

Student’s Innovation Club @ Department of Computer Science and Engineering

The students’ innovation club was established in the department of computer science and engineering on 08th October 2021. Innovation club is a platform for students to think out of the box. An innovative environment for generating ideas is provided for students through engagement and hands-on training activities. Innovation club provides students with support and resources to successfully join Startup teams, launch their own Startups or become innovative thinkers in larger organizations. Faculty and students are brought together to encourage entrepreneurial thoughts. Innovation club challenges the students outside of class. The innovation club will guide students about their idea's technical and business feasibility and practical implementation. Innovation club helps students from different backgrounds to come together and create something. Student's innovation club is a student led “agent of change” platform. Innovation club helps students to transform into the future entrepreneurs of tomorrow. The Innovation club creates awareness, educates, nurtures and inculcates a culture of innovation amongst students and enables them to generate new ideas and become more innovative in their outlook.

CSE Technical Clubs

CSI Technical Clubs was inaugurated on 8th October 2020 in the department of Computer Science and Engineering which includes Coding Club, Data Science and Machine Learning Club, Web Development Club and App Development

Publications

Dr. S.S Honnanagoudar :

- ◆ **Solvation, Rotational Dynamics, Photophysical Properties Study Of Aromatic Asymmetric Di-Ketones: An Experimental And Theoretical Approach** *ELSEVIER, May 2021.*,
- ◆ **Geological and Geomorphological Analysis and Hydro geochemical Environment of Aquifers of the Southern West Coast of Karnataka, India** *Vol-10/Issue -03/ March 2021 ISSN No:2277-8179.*
- ◆ **Studies on the use of Geology, Pumping Test of Coastal Dakshina Kannada District for Logical Examination of Saltwater Intrusion** *National Conference on Innovations & Recent Trends in Civil Engineering(NCIRCE-2021) 9th and 10th June 2021*
- * Jagadish S Dharigoudar , Naveenkumar **Analysis and Design of High-Rise Structure Under Seismic Performance and Structure is connected with and without Braces** *Vol:03 Issue: 11/Nov 2021 (IRJMET).*
- * Harshitha Kadam, Naveen kumar **A Study on Seismic behaviour of G+12 R.C Frame Building with and without Masonry infill Walls** *Vol:03 Issue: 11/Nov 2021 (IRJMET).*
- * Darshan K M, Dr. H R Srinivas, MaryBhagya Jyothi **Comparative Analysis Of High Rise Buildings With And Without Dampers In Zone V Using Etabs** *Vol:03 Issue: 11/Nov 2021 (IRJMET)*
- * Nandish S, Dr. S Vijaya Sharath B **Non-Linear Static Analysis of G+10 Multi-Storey RC Building** *Vol:03 Issue: 11/Nov 2021 (IRJMET)*
- * Ashok Kumar BC Darshan MK **Comparative Study Between Boundary Element Design and Uniform Shear Reinforcement in Shear Wall in Seismic zone IV** *Vol:03 Issue: 11/Nov 2021 (IRJMET).*
- * Bhavana S, Darshan MK **Comparative Study on Outrigger Structure and Conventional Structure** *Vol 8, Issue 11/Nov 2021 (JETIR)*
- * Sowmya M **Morphometric Characteristics of a Twin River Coastal Watershed: Implication for Watershed Management: A Case Study from the Mulki-Pavanje Rivers, Karnataka, India** *Bulletin of Pure and Applied Sciences- Geology Vol.40F, July- Dec 2021*
- * Santosh Kumar GK, Dr. S Vijaya Sharath B **Study on Performance of Cantilever Space Frame Structure for Lateral Load** *Vol: 06 Issue 1/Nov-Dec 2021, IJTSRD*

WEBINARS ORGANISED

National Webinar on **REHABILITATION OF STRUCTURES & LOW COST CONSTRUCTION IN CIVIL ENGINEERING** was organized on 19.06.2021 The resource person is Dr L.R. Manjunatha, Associate Vice President (Direct sales) JSW Cement Limited & Chairman (ICI) Bangalore centre, Karnataka. Co-Ordinators: Dr. S.D. Venkataraj Mohan, Mr. Shreyas.K , Ms. Mary Bhagya Jyothi

National Webinar on **WORLD ENVIRONMENT DAY** was organized on 05.06.2021 titled **ECO-SYSTEM RESTORATION** The resource person is Dr H.Lakshmi Kantha, Environmental Officer, KSPCB, Karwar Regional Office Karnataka. Co-Ordinators: Dr.C.Nanjundaswamy, Mr. Naveen Kumar.M, Mr. Sharat B,

Talks Delivered

Dr. M.N Hegde, Professor Delivered a speech on **“SMART SENSORS FOR INFRASTRUCTURE MONITORING”** on 02.06.2021. at Don Bosco Institute of Technology

Dr. S.D Venkataraj Mohan, Professor delivered a Online lecture on **“POLLUTION CONTROL AND REMEDIATION: A GEO ENVIRONMENTAL APPROACH”** on 29.12.2021 for AICTE – ISTE Induction/ Refresher Program organized in Malnad College of Engineering, Hassan.



Congrats

Mr. Shreyas K, Assistant Professor received meritorious “Bharat Ratna Indira Gandhi Gold Medal award” from Global Economic Progress and Research Association, New Delhi (GEPR) on 26.12.2021 for Individual achievements in respective field work.



Gate Qualifier 2021

Sagave Abhinav



Reported by Ms.Supritha

Publications

- ◆ Anzum Ansari, Shankaralingappa C Byalihal, “ **Resource Aware Wind Farm And D-STATCOM Optimal Sizing And Placement In A Distribution Power System**”, *International journal of Electrical and Computer Engineering (IJECE)*, Vol.11, No.6, December 2021, pp.4641-4648, ISSN:2088-8708, DOI:10.1.11591/ijece.v11i6.pp.4641-4648
- ◆ Shreedar Rao N R, Ms. Arpitha Raju B, “**Design of BLDC Drive based Electric vehicle with Power generation for low Voltage Vehicle with Power Generation for low voltage vehicle loads**”, *Web of Science- Vidyabharati International Interdisciplinary Research Journal(Special issue on Emerging Techniques in Interdisciplinary Sciences-Oct.2021)*, ISSN:2319-4979,pp1322-1328
- ◆ Nalini S, Pooja G, **Electric Vehicle charging station using Renewable Energy sources- Hardware studies**, *Web of Science- Vidyabharati International Interdisciplinary Research Journal (Special issue on Emerging Techniques in Interdisciplinary Sciences-Oct.2021)*, ISSN:2319-4979,pp1329-1334
- ◆ Divya Patil, Ganavi H P, Krishnasagar B, Marasanna, Arpitha Raju B, **Plastic Bottle Reverse Vending Machine** *International Journal of Research Publication and Reviews(ijrpr)*, ISSN 2582-7421, Vol 2, Issue 8, 2nd August 2021, pp.24-29.
- ◆ Kiran H C, Madhushree M S, Roopesh N P, hivasharana, Dr. Shankaralingappa, **Microcontroller based Transformer Protection**, *International Journal of Research Publication and Reviews(ijrpr)*, ISSN 2582-7421, Vol 2, Issue 8, 2nd August 2021.
- ◆ Harish S V, Harshitha M G, Karthik Kumar T S, Nagabhooshan Mesta, Pankaja H G, **Study Of Breakdown Voltage Of Liquid Dielectrics In Transformer Using Quickfield Software**. *International Journal of Research Publication and Reviews(ijrpr)*, ISSN 2582-7421, Vol 2, Issue 8, 2nd August 2021..
- ◆ Dr. H V Govindaraju, Sachin, Sujatha Basavaraj, H, Shylaja C D, Hiremath Sumanth, **Microcontroller Based Solar Inverter And Monitoring System Using IoT**, *International Journal of Research Publication and Reviews(ijrpr)*, ISSN 2582-7421, Vol 2, Issue 8, 2nd August 2021
- ◆ Dr. Eranna, Nagappa, Rakshitha M P, Rohit, Kishore D N, Dual axis Solar Tracking System, *International Journal of Research Publication and Reviews(ijrpr)*, ISSN 2582-7421, Vol 2, Issue 8, 2nd August 2021
- ◆ Dayananda T B, Nisarga A M, T Prajwal, Vinay A S, Kiran M R, **Smart Energy Meter**, *International Journal of Research Publication and Reviews(ijrpr)*, ISSN 2582-7421, Vol 2, Issue 8, 2nd August 2021
- ◆ Rajesh L V, Harish K L, Lakshmi M V, Vinutha L, Yashaswini M, **IoT Based Induction Motor Condition Monitoring And Controlling**, *International Journal of Research Publication and Reviews(ijrpr)*, ISSN 2582-7421, Vol 2, Issue 8, 2nd August 2021.
- ◆ Padmashree V Kulkarni, Jyoti P Koujalagi, S Babitha, Book Chapter- **Development of Lab-view Based Model Of Switched Reluctance Motor Using PI Controller**, *New approaches in Engineering Research Vol.7,Chapter 3*, Print ISBN: 978-93-91473-54-9, ebook ISBN:97893-91473-56-6

- ◆ Gajendra Yadav N, Jyoti Koujalagi, **Simulation And Analysis Of Electromagnetic Field In Induction Motor Using Ansys Maxwell**, Vol.8, Issue 7, 2021, PP: 1155-1158, ISSN No. 1869-9391, GIS Science Journal
- ◆ Shivalingaiah K L, Dr. Jyoti P Koujalagi, **Comprehensive Review Of The Winding Configuration In Switched Reluctance Motor** Design Engineering Scopus indexed Journal, ISSN:0011-9342,2021, Issue 6, PP.3060-3067
- ◆ Shivalingaiah K L, Dr. Jyoti P Koujalagi, **Comprehensive Review of winding configuration in switched Reluctance Motor** , International Conference on current Trends in Multidisciplinary Research, organized by Indian Academicians and Researchers Assn. 1st August 2021, LARA Delhi NCR.
- ◆ Suma C, Dr. Jyoti P Koujalagi, **Performance Analysis of Electric Bicycle** International Conference on current Trends in Multidisciplinary Research, organized by Indian Academicians and Researchers Assn. 1st August 2021, LARA Delhi NCR.
- ◆ Suma C and J Koujalagi, **Performance Analysis of Electric Bicycle** , Vidya Bharathi International Interdisciplinary Research Journal (web of science), ISSN:2319-4979, Special Issue on Recent Research Trends in Management, Science & Technology, Aug.2021, pp 923-929

Workshops/FDP Attended

Sl. No.	Name of Faculty	Date and venue	Title	Type
1	T.B Dayananda, Arpitha Raju	13 th to 18 th Dec 2021, Dr.AIT, Bengaluru	Outcome based Education: in perspective of national Education Policy	FDP
2	Nalini S	August 22, 2021(12 weeks) IISc, Bengaluru Online	NPTEL-NBA Accreditation and Teaching-Learning in Engineering (NATE)	FDP
3	Pankaja H G,Harini Vaikund,Dhanyavathi A, Deepti S Shastrimath	30/11/ to 4/12/2021 Dr. AIT, BENGALURU	Competence to Explore Artificial Intelligence World	Workshop

Congrats

Arpitha Raju, completed her PhD Final Defense on the theses titled , **Investigations on Electro convection under AC Electric field in Dielectric Fluids** from VTU

Publications

- ◆ Yamuna Devi C R, Afreen Banu, **Automated RAB (Radio Access Barrier) Services HSDPA Data Transfer 16 QAM(CPC)**, *International Research Journal Of Engineering and Technology(IRJET)*, Vol. 08, Issue: 10, PP No: 296 – 302, Paper ID: FTP8100612, Month and Year: October 2021.
- ◆ B Sivakumar, **Design And Implementation Of Iot Based Golf Cart Autonomous Vehicles**, *International Research Journal of Engineering and Technology (IRJET)* e-ISSN: 2395-0056, Volume: 08 Issue: 09 | Sep 2021, p-ISSN: 2395-0072
- ◆ B Sivakumar, Shruthi P C, **Reduction Of Blocking Probability Optimization Algorithm For Allocation Of Wavelength Converter** *World Journal of Engineering Research and Technology WJERT*, ISSN 2454-695X, wjert, 2021, Vol. 7, Issue 5, 259-272.
- ◆ B Sivakumar, **Weather Monitoring And Forecasting System Using Iot** *Global Journal of Engineering and Technology Advances*, eISSN: 2582-5003, 2021.
- ◆ B Sivakumar, **An Algorithm For Scheduling Hybrid Slot-Size To Increase Traffic Density In Epons**, *Global Journal of Engineering and Technology Advances*, eISSN: 2582-5003, 2021, 08(01), 028–038.
- ◆ B Sivakumar, **Heterogeneous Wireless Ad-hoc Networks to Enhance Coverage Area Using Femtocells**, *International Journal of New Innovations in Engineering and Technology*, ISSN: 2319-6319, Volume 17 Issue 1 June 2021.
- ◆ Sahana, Vidya H, **Wearable Wireless Sensor Nodes for Telemonitoring of Vital body Parameters and Heart activity**, *International Research Journal of Engineering and Technology (IRJET)* e-ISSN: 2395-0056 Volume: 08 Issue: 10 | Oct 2021 www.irjet.net p-ISSN: 2395-0072
- ◆ Aravinda H L, Pooja F Puttiyavar **Image Fusion For Enhancement Of Low Quality Contrast Images Using Deep Learning**, *International Research Journal of Engineering & Technology (IRJET)*, Vol.8, Issue 9, September 2021. e-ISSN : 2395-0056, p-ISSN : 2395-0072.
- ◆ Chandrakala V, Maithra, Veena D R, Shridevi, Suhas, **Smart Village System for Rural Development**, *International Journal on Creative Research Thoughts* , Volume -9, Issue-5, ISSN-2320-2882, 2021, pp. a643-a648, Impact factor: 7.97 ,May-2021
- ◆ Sunil S Harakannanavar, Prashanth C. R., **Development of Algorithm for Offline Signature Verification Using Fusion Extraction Techniques**, *Journal of Seybold Report*, pp. 1421-1431, 2021.
- ◆ Praveen K B, B Sivakumar, **Analysis Of Vowel Addition Or Deletion In Continuous Speech**, *Global Journal of Engineering and Technology Advances*, eISSN: 2582-5003, 2021, 07(03), 136–143.
- ◆ Soumya M, **Journal An Embedded System based Plant Leaf Disease Identification Classification using Neural Networks and IoT** *International Research Journal of Engineering and Technology (e-ISSN: 2395-0056, p-ISSN: 2395-0072)*, 7.529 Impact Factor, in Volume: 08 Issue: 09, September 2021.
- ◆ Siddesha K, Kavitha Narayan BM and Ramappa Hiremani, **Performance Analysis Of Task Scheduling Algorithms For Energy Efficiency In Mobile Cloud Computing Environment** *Journal of Design Engineering*.

Dr. B. Sivakumar is the Editor for the ICTACT Journals

Webinars Organised

Cyber Attack Surface Reduction using Docker Platform, in association with Institution's Innovation Council, Ministry of Education (MoE), Govt. of India on 23.07.2021 coordinated by Dr. Yamuna Devi C R, Dr. Aravinda H L, Soumya M,

Workshop/FDP Attended

Dr. B Sivakumar,

- ◆ National Level virtual FDP on **Virtual Faculty Development Program on Revised NAAC Accreditation Guidelines 2020** from 1st June 2021 to 5th June 2021 organized by Jain University.
- ◆ Webinar Series on **New Educational Policy 2020** from 14th June, 2021 to 18th June, 2021 organized by Institute of Management Studies & Internal Quality Assurance Cell (IQAC) Davangere University.
- ◆ Webinar on **Technology- Centric Education and Health Care: A Paradigm shift in post-pandemic living** on May 21, 2021 Organized by ICFAI Education School, ICFAI University, Dehradun.
- ◆ National Webinar on 5-6-2021 **Post Covid-19 Era In Education And Technology** Dr. AIT In association with NOUS INFOSYSTEMS.
- ◆ Webinar on **Implementation of National Education Policy (NEP) 2020** held on 07.06.2021 at Oxford Engineering college, Bangalore.
- ◆ AICTE-ISTE funded Induction / Refresher program (3rd - Phase) on **Future Wireless Communication: Standards & Technologies** organized by the Department of Electronics & Communication Engineering, KNSIT, Bangalore between 24th - 29th May 2021.
- ◆ Dr. Sudha Thimmaiah, Dr. Vidya H, Kavitha B N, **Competence to Explore Artificial Intelligence World**, Dr. AIT in association with IETE student chapter from 30.11.2021 to 04.12.2021
- ◆ Dr. Prashanth C R, presented paper titled **Solar Cell Material Based on the Optimum Values of Key Parameters using PC1D** at *International Conference in Emerging Technologies, during 21st – 23rd May, 2021.*
- ◆ Dr. Prashanth C R attended International Conference on **Smart Data Intelligence** held during April 29-30, 2021.
- ◆ Dr. Shruthi P C participated in Five Day online FDP on **NEP 2020: Leadership and Excellence** held from 13th to 17th of July 2021, NMIT, Bangalore
- ◆ Dr. Shruthi P C, online ATAL FDP on **Photonics** from 2021-07-19 to 2021-07-23 at IIT Bhilai.
- ◆ Dr. Shruthi P C, participated online ATAL FDP on "**Recent Trends in the World of Photonics**" from 2021-07-26 to 2021-07-30 at R N S Institute of Technology.
- ◆ Dr. Shruthi P C participated online FDP on **5G TECHNOLOGY** from 23/08/2021 to 27/08/2021 at BMS College of Engineering
- ◆ Dr. Aravinda H L, participated in ATAL online Elementary FDP on **Green Communications** from 24.08.2021 to 28.08.2021, BMS Institute of Technology and Management.
- ◆ Dr. Aravinda H L, attended FDP on **Outcome Based Education : In perspective to National Education Policy 2020** held on 13-18, December 2021 Dr. AIT
- ◆ Praveen K B, Kavitha Narayan B, ATAL Academy Online Elementary FDP on **Revolution on 5 G and Beyond with Industrial Instrumentation Approach, Machine Learning** from 13/09/2021 to 17/09/2021 at Dayananda Sagar College of Engineering.

- ◆ Sowmya M, Participated in the International Webinar Series II on **Challenges and Opportunities in Higher Education beyond COVID-19**, organized by Dr. AIT on 27.06.2021.
- ◆ Sowmya M, Participated in the five -day online FDP **Inculcating Universal Human Values in Technical Education** organized by AICTE from 6th to 19th December 2021.
- ◆ Sowmya M, Attended ATAL Academy Online Elementary FDP on **Electrophysiology and Neuro-Instrumentation** from 08/11/2021 to 12/11/2021 at Dr. AIT

Dr.Yamuna Devi C R, chaired a session for the 16th International Conference on “Information Processing – ICINPRO-2021” , organized by Computing Professionals Charitable Trust and University Visvesvaraya College of Engineering, Bangalore, October 22-24, 2021

Talks Delivered

- ⇒ Dr.Yamuna Devi C R, online Induction Program for academic year 2020-2021 on topic “**Creative Practices**” on 18.6.2021 , Dr. AIT, Bangalore.
- ⇒ Dr.Yamuna Devi C R, Chief Co-ordinator for webinar on “Cyber attack surface reduction using Docker Platform” on 29.07.2021, resource person Mr. Keerthi Prakash, Senior Software Engineer, Qlik India Pvt. Ltd.
- ⇒ Dr. Prashanth C R , **Emerging Trends in Electronics and Communication Engineering** during Induction Program held at Govt. SKSJTI, Bangalore on 11th May 2021.
- ⇒ Dr. Prashanth C R, at AICTE – Margadarshan FDP on “**Outcome Based Education: In Perspective to National Education Policy 2020** held during 13th and 18th December 2021.
- ⇒ Dr. Prashanth C R , **Analog Circuits** for 4th semester Students of VTU under VTU E-Shikshana Program during December 2021.
- ⇒ Dr. Prashanth C R , **Signals and Systems** for UG Engineering students during 29th November – 11th December 2021 in association with EdGate Technologies.

AWARDS

Dr. Prashanth C R has been awarded with “Research Excellence Award 2021” by Institute of Scholars

CONGRATULATIONS

Mahesan K V– is awarded with Ph.D. from JAIN University in the field of Image Processing On December 2021.

- ◆ C.E. Nanjundappa, A Pavithra and I.S. Shivakumara, **Effect Of Dirty Particles On Darcy-Brinkman Gravity Driven Ferro-Thermal Convection In Ferrofluid Saturated Porous Layer With Internal Heat Source: Influence Of Boundaries**, International Journal of Applied Mathematics, Vol-7, pp: 1-20.
- ◆ Y L Savitha, Nanjundappa C E and Shivakumara I S, **Influence of Boundary conditions and Temperature-Dependent-Viscosity on Penetrative Ferrothermal Porous Convection**, Applied Thermal Engineering, Vol. 2339, pp : 700-705.
- ◆ Kulkarni Sunita Jagannatharao, S.K. Rajendra and R Murali, **Rainbow Dominator Coloring In Graphs**, Palestine Journal of Mathematics, Vol. 10, Issue 2, pp:122-130.
- ◆ Narahari Narasimha Swamy, Gowtham Kalkere Jayanna, Chandan Katigenahalli Gangappa and Badekara Sooryanarayana, **An Algebraic Approach to Find Some Topological Indices of Derived Graphs of the Benzene Ring**, Bio interface Research in Applied Chemistry, Vol 12, No.4, pp:5431-5443.
- ◆ Narahari Narasimha Swamy, Badekara Sooryanarayana and Akshara Prasad S.P., **Magic Sigma Coloring of a Graph**, Computer Science Journal of Moldova, Vol 29, No. 2, pp: 257--270.
- ◆ K Mitra, B. Sooryanarayana and Sunita Priya D'Silva, **On Classes Of Defensive Alliance Difference Secure Sets Of A Graph**, Turkish Online Journal of Qualitative Inquiry, Vol 12, No. 6, pp: 7631-7637.
- ◆ Badekara Sooryanarayana and Suma Agani Shanmukha, **Graphs of Neighborhood Metric Dimension Two**, J. Math. Fund. Sci., Vol 53, No.1, pp: 118-133.
- ◆ GR Roshini, SB Chandrakala, M Vishu Kumar and B Sooryanarayana, **Non-Neighbor Topological Indices of Honeycomb Networks**, Palestine Journal of Mathematics, Vol 10 No.1, pp: 52-58.
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- ◆ YH Gangadharaiah, H Nagarathnamma and BN Hanumagowda, **Combined Impact Of Vertical Through flow And Gravity Variance On Darcy-Brinkman Convection In A Porous Matrix**, International Journal of thermofluid Science and Technology, Vol 8, No. 3

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- ◆ Somashekhara G Prabhavati G Angadi and Shivaprasanna G S, **Ricci Solitons On (LCS)-Manifolds Under D-Homothetic Deformation**, Italian Journal of pure and Applied Mathematics, Vol. 46 pp:672–683.

Invited Talks

Dr. B. Sooryanarayana delivered following talks:

- ⇒ **Cayley Graphs And Bell Ringing** in the Virtual International conference on Discrete Mathematics and Combinatorics held at PPC, Udupi, during 22-23 July 2021.
- ⇒ **Groups And Graphs And Hamiltonicity And Matchings In Graphs** in the UGC-Refreshercourse organized by UGC-Human Resource Development Center, Mysuru, during 25th Aug and 7th Sept 2021.
- ⇒ **Concepts Of Graph Theory and Matchings in Graphs** in ATAL FDP on Emerging Trends in Application of Mathematics, organized by DSCE, during 6-10, Dec 2021.
- ⇒ Dr. R. Murali delivered an invited talk on **Some Interesting Problems In Graph Theory** in the five days national level FDP on Emerging Trends in Mathematics organized by the Department of AS&H, Tirumala Engineering College, Narasaraopet, Guntur District, Andhra Pradesh on 21st June 2021.
- ⇒ Dr. Jayalakshmi M delivered an Invited talk on **Cayley Graphs And Its Properties** in three days National level Virtual FDP on Graph Theory organized by Vellalar College for Women, Erode Tamilnadu on 22nd Dec 2021.

AWARDS

- Dr. B. Sooryanarayana, Received **Best Mathematics Professor** of 2021 awarded by Indian Glory Award in Sept 2021.
- Dr. Jayalakshmi M Received **National Best Researcher Award 2021 In Graph Theory**, awarded by International multidisciplinary research foundation on 11th Nov 2021.

Conference / Seminar / Workshop / FDP Attended:

- ◆ Dr. R Murali, online FDP on **Research Funding Projects And IPR** organized by R&D Cell IQAC and Department of EXTC, Computers and IT, Thane, during 7- 9 June 2021.
- ◆ Dr. R Murali, Dr. Shivaprasanna G S STTP on **Control System Analysis And Design With MATLAB** organized by NITTR, Kolkata, during 9-13 Aug 2021.
- ◆ Dr. R Murali, International Virtual Conference on **Mathematical Modelling And Numerical Solution Of Air Pollution** Government Arts and Science College, Hosur on 23rd Aug 2021.
- ◆ Dr. Jayalakshmi M, Training program on **Data Analytics using R- Software**, BIT, Bengaluru, Karnataka held during April 26-29 and May 10-15, 2021.
- ◆ Dr. Jayalakshmi M online workshop on **Recent Trends in Domination and Graph Labeling**, Ramanujan College, University of Delhi in collaboration with ADMA during 27-31, May 2021.
- ◆ Dr. Padma M M, **FDP On Innovative Teaching And Research In Science: Exploring The New Horizons** Government First Grade College, Bengaluru during 10-15 June 2021
- ◆ Dr. Nagarathnamma H, Dr. Shivaprasanna G S FDP on **Emerging Trends in Mathematics**, Tirumala Engineering college, Narasaraopet , Guntur during 17- 21 June 2021.
- ◆ Dr. Nagarathnamma H, **International Virtual Conference on Mathematical Modelling and Numerical Solution of Air Pollution Problems**, Government Arts and Science College, Hosur -635 110 , Tamil Nadu , India on 23.08.2021.
- ◆ Dr. Shivaprasanna G, National Symposium on **National Education Policy-2020 and Technical Education** Dr. AIT, during 17 - 19 Dec 2021.
- ◆ Dr. Shivaprasanna G S, FDP on **MATLAB and its Applications** organized by NITTR Kolkata from 5-9 July 2021.
- ◆ Savitha Y L, National Webinar on **Fluid Mechanics**, KGISL Institute of Technology, Coimbatore, during 29-30 June 2021.
- ◆ Savitha Y L Participated in a webinar on **Differential Transforms And Series Solutions Of Non-Darcy Momentum Equation**, KPR Institute of Engineering and Technology, Coimbatore, held during 25-26 June 2020.
- ◆ Savitha Y L Participated in FDP on **Innovative Teaching and Research in Science: Exploring the New Horizons** organized by Science Forum in Association with IQAC, Government First Grade College, Vijayanagar, Karnataka during 10 - 15 June 2021.

BEST PAPER AWARD: SAVITHA Y L

For the paper titled 'Influence of Boundary Conditions and Temperature Dependent Viscosity on Penetrative Ferro-Thermal Porous Convection' at the online *International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics*, held at Johannesburg during 26 July 2021

Publications

Dr. Baskaran S :

- ◆ **Digital Pedagogy for Sustainable Learning**, *Shanlax International Journal of Education*, P-ISSN: 2320-2653, Vol. 9 Issue 3, June 2021
- ◆ **The Role of Microfinance Enterprises on Capacity Building**, *International Journal of Management and Social Science Research Review*, E- ISSN - 2349-6746,ISSN -2349-6738,,Vol-8, Issue-12, Page 18-26, December-2021
- ◆ **Post Covid Financial Performance of Urban Co-Operative Banks in India**, *International Journal of Multidisciplinary Research Review*, Vol.7, Issue-12, Page - 25 December-2021
- ◆ Dr.Shailaja M L :
 - ◆ **Risk Management-A Study Of The Role Of ICT On The Appraisal Of Weather Risk Assessment Devices** In *International Journal of Research and Analytical Reviews (IJRAR)*, , IJAR December 2021, Volume 8, Issue 4 E-ISSN 2348-1269, P- ISSN 2349-5138, Page No. 875-880
 - ◆ **A Study On Impact Of Investors Behavioral Biases On The Returns Of The Investor's During Volatility, With Reference To Indian Capital Markets.** In *International Journal of Creative Research Thoughts(IJCRT)*, Volume -9, Issue-12, , December 2021, Page No.- a599to a607 — E-ISSN-2320-2882 &
 - ◆ **Analysis and Evaluation of Financial performance of Pharmaceutical Industry through Ratio** *International Journal of Research Publication and Reviews*, Sr .No: IJPR 2773,Vol. (2) Issue (8) August 2021, Page 1521-1527, ISSN 2582-7421

Dr. Sushhela Devi B D

- ◆ **Study On Service Quality Of Insurance Companies -A Comparative Study** *Turkish Journal of Computer and Mathematics Education- (TURCOMAT)* ,Vol.12 No. 11 (2021), Page no 284-291, E-ISSN 1309-
- ◆ **A study Challenges of Supply Chain Management in FMCG Sector at Bangalore** at AICTE sponsored International Conference on Business Management In Emerging Markets (online) (ICBMEM-2021), Oxford College of Engineering in Bangalore, on 1st and 2nd November 2021.
- ◆ Ms. Vidya R A:
 - ◆ **Study On Impact Of Investor's Behavioral Biases On The Returns Of The Investors During Volatility, With Reference To Indian Capital Markets** *International Journal of Creative Research Thoughts*, Vol: 9, Issue: 12 December 2021, (DOI:, E-ISSN Number - 2320-2882
 - ◆ **Risk Management- A Study Of The Role Of ICT On The Appraisal Of Weather Risk Assessment Devices**, *International Journal of Research and Analytical Reviews(IJAR)*, Vol:8,Issue:4, 4th December 2021, E-ISSN Number - 2348-1269, pp. no. 875- 880,

Arundathi S V, A Study on Relationship between Emotional Intelligence and Occupational Stress levels among Nursing Professionals of Bengaluru Hospitals. IJCRT2112053 International Journal of Creative Research Thoughts (IJCRT) 2021 IJCRT | Volume 9, Issue 12 December 2021 | ISSN: 2320-2882

Kavitha A study on Customer Perception towards Airtel network in Bengaluru in Strad Research, An UGC CARE Approved Group II journal, Volume 8, Issue 9, September 2021. Pg,no 226-241, ISSN: 0039-2049, IF - 6.1

A Study On Factors Influencing Customer On Network Preference In Telecom Network Services With Reference To Bangalore City in GIS SCIENCE JOURNAL, An UGC CARE Approved Group II journal, Volume 8, Issue 7, July 2021. Pg,no 1998-2009, ISSN: 1869-9391, IF - 6.1

Leela M H, Digital Pedagogy for Sustainable Learning, Shanlax International Journal of Education, P-ISSN: 2320-2653, Manuscript ID: EDU-2021-09033881, Peer-reviewed, Volume 9, Issue 3, June 2021, pp. 179 – 185

Sustainability of HUL and ITC using RSI and ROC – Technical Analysis, International Journal of Research Publication and Reviews, ISSN- 2582-7421, Peer-reviewed, Referred Journals, Vol. 2, Issue (8), pp. 246-256, August 2021,

Workshop/ Conference/Seminar/Technical Talk organised:

-
- 1 New Age Career & Future Work Prospects in Industry 4.0 29/05/21

 - 2 Student Development Programme (SDP) on Startup Ideas and Entrepreneurship in Social Science 27/12/21
 - 3 Guest lecture on Entrepreneurship Development 25/11/21
 - 4 Motivational Talk 16/12/21
-

Industrial Visits:



Eastern Silk Industries Ltd on 16th November 2021



Doddanna Organic farm 2nd Dec. 2021



Karnataka Soaps and Detergents Limited 15th Dec. 2021

Achievements/Awards:

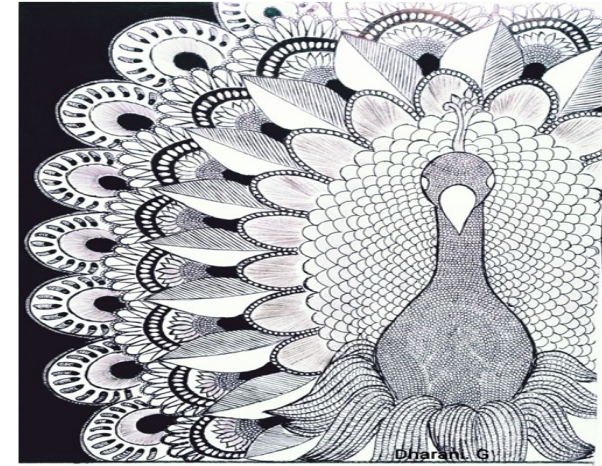
Dr. Baskaran S has published the Book on “Elements of Costing and Economics” , Jayvee Publications Private Limited, 2021, ISBN: 9788195009251.

PATENT:

1.Dr.Shailaja M L has obtained A Patent on “**An Automated Advertising Method for Taking Personalized and Staying Location based Informational Offers related to immediate Business using Machine Learning Model**” is granted by Australian Government, IP Australia, Patent No.:2021107100 on 17th November 2021,the term of Patent is 8 years from 25th August 2021.

2.Dr. Susheela Devi B D has obtained an Australian Patent -- Patent number-2021102370- **The Effectiveness Of Internet Advertising On Consumer Buying Behaviour Towards Mobile Phones**, dated 9th June 2021.

Reported by: S. Kavitha



EDITORIAL :

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PH. NO. 23218534,23211232, FAX: 080-23217789 WEBSITE www.drait.edu.in