Our Vision

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

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

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

Dr. M Mahadeva Ph D
Trustee, PVPWT
Former Faculty, ISEC
Ex-Chairman, KPSC GoK
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.
♦ Madhu B Computer Vision Based Smart Music Player
♦ Mamatha S K Graph Theory based Segmentation of MR Images for Brain Tumor Detection
♦ Harish G A Machine Learning Model for Prediction of Diabetes and Hypertension Using Ensemble Learning Approach
♦ Harish G Detection of Traffic Rules Violation By Vehicles Using Machine Learning Model
♦ Harish G COVID-19 Vaccination Twitter Data Analysis For India
♦ Smitha Shekar B A Machine Learning Model for Prediction of Diabetes and Hypertension Using Ensemble Learning Approach
♦ Smitha Shekar B Detection of Traffic Rules Violation By Vehicles Using Machine Learning Model
♦ Smitha Shekar B COVID-19 Vaccination Twitter Data Analysis For India
♦ Veena Potdar Analysis of Vocal Pattern to Determine Emotions using Machine Learning
♦ Lavanya Santhosh Analysis of Vocal Pattern to Determine Emotions using Machine Learning
♦ 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
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, Bharthinagar, 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.

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. Vinisha 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., Ms. Veena


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
**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

**Reporter:** Dr. Madhu B & Ms. Lavanya Santhosh
Department of Civil Engineering

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

- 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)
- Santosh Kumar GK, Dr. S Vijaya Sharath B Study no 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.
Mr. Shreyas K, Assistant Professor received meritorious “Bharat Ratna Indira Gandhi Gold Medal award” from Global Economic Progress and Research Association, New Delhi (GEPRA) on 26.12.2021 for Individual achievements in respective field work.

Gate Qualifier 2021
Sagave Abhinav

Reported by Ms.Supritha
# Publications


- Shivalingaiah K L, Dr. Jyoti P Koujlagi, *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, IARA Delhi NCR.

- Suma C, Dr. Jyoti P Koujlagi, *Performance Analysis of Electric Bicycle* International Conference on current Trends in Multidisciplinary Research, organized by Indian Academicians and Researchers Assn. 1st August 2021, IARA Delhi NCR.


### Workshops/FDP Attended

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

### 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


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.


**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**

<table>
<thead>
<tr>
<th>Workshop/FDP Attended</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. B Sivakumar,</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Webinar Series on New Educational Policy 2020 from 14th June, 2021 to 18th June, 2021 organized by Institute of Management Studies &amp; Internal Quality Assurance Cell (IQAC) Davangere University.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>National Webinar on 5-6-2021 Post Covid-19 Era In Education And Technology Dr. AIT In association with NOUS INFOSYSTEMS.</td>
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<td></td>
<td>Webinar on Implementation of National Education Policy (NEP) 2020 held on 07.06.2021 at Oxford Engineering college, Bangalore.</td>
</tr>
<tr>
<td></td>
<td>AICTE-ISTE funded Induction / Refresher program (3rd - Phase) on Future Wireless Communication: Standards &amp; Technologies organized by the Department of Electronics &amp; Communication Engineering, KNSIT, Bangalore between 24th - 29th May 2021.</td>
</tr>
<tr>
<td>Dr. Sudha Thimmaiah, Dr.Vidya H, Kavitha B N,</td>
<td>Competence to Explore Artificial Intelligence World”, Dr. AIT in association with IETE student chapter from 30.11.2021 to 04.12.2021</td>
</tr>
<tr>
<td>Dr. Prashanth C R attended International Conference on Smart Data Intelligence held during April 29-30, 2021.</td>
<td></td>
</tr>
<tr>
<td>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.</td>
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<tr>
<td>Dr. Shruthi P C, online ATAL FDP on Photonics from 2021-07-19 to 2021-07-23 at IIT Bhilai.</td>
<td></td>
</tr>
<tr>
<td>Dr. Shruthi P C, participated online ATAL FDP on &quot;Recent Trends in the World of Photonics&quot; from 2021-07-26 to 2021-07-30 at R N S Institute of Technology.</td>
<td></td>
</tr>
<tr>
<td>Dr. Shruthi P C participated online FDP on 5G TECHNOLOGY from 23/08/2021 to 27/08/2021 at BMS College of Engineering</td>
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</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>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</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
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

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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.

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Reported by: Dr. Sudha Thimmaiah


M Jayalakshmi and Badekara Sooryanarayana, An Outer Mod Sum Labelling of the graph Cay (Z_n^k,5), Journal of Huazhong University of Science and Technology


S Kiran, YH Gangadharaiah and H Nagarathnamma, Effects Of Linear And Nonlinear Gravity Variance On Penetrative Nanofluid Convective Motion In An Anisotropic Porous Matrix., Materialstoday Proceedings online


**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.


- 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. 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. 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 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.

BEST PAPER AWARD: SAVITHA Y L

For the paper titled ‘Influence of Boundary Conditions and Temperature Depedndent 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

Reported by: Dr. M Jayalakshmi
Publications

Dr. Baskaran S:


- **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*


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), IJRAR December 2021, Volume 8, Issue 4 E-ISSN 2348-1269, P-ISSN 2349-5138, Page No. 875-880*


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:


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:


PATENT:


Reported by: S. Kavitha
EDITORIAL:

CHIEF EDITOR: Dr. M Meenakshi  Principal
EDITOR: Dr. SHANTHI K J, HOD  Medical Electronics