



Dr. Ambedkar Institute of Technology

(An Autonomous Institution Aided by Govt. of Karnataka)

Affiliated to Visvesvaraya Technological University Belgaum

Mallathalli Bangalore 56

NEWS LETTER

Jan-Apr. 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.



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



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Secretary, Irrigation Dept. (Rtd.), GoK



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



Dr. M Mahadeva Ph D
Trustee/, PVPWT
Former Faculty, ISEC



From the Principal's Desk

Greetings to all the readers!

I am happy to give the opening note for the online Newsletter. The academic year 2020-2021 most of the part went online. Dr. AIT went into online mode of tutoring and supervised online exams wherever needed, with an eye on the quality of education imparted. The campus missed the buzz of the students and the countless extracurricular activities. Hoping as everyone else to have the students back to the campus. The faculty training & skill development programmes are all restricted to online mode, the future will be blended learning. Blended learning will be inculcated in our academic curriculum to bring the best from all corners of the country and outside to reach to our students. The placement & research activities are progressing with good stride. Dr. AIT is striving hard to be the best institute and determined to be at it.

Let us all be optimistic & on guard, while looking ahead for the coming academic year.

Best Wishes to All !

Warm Regards

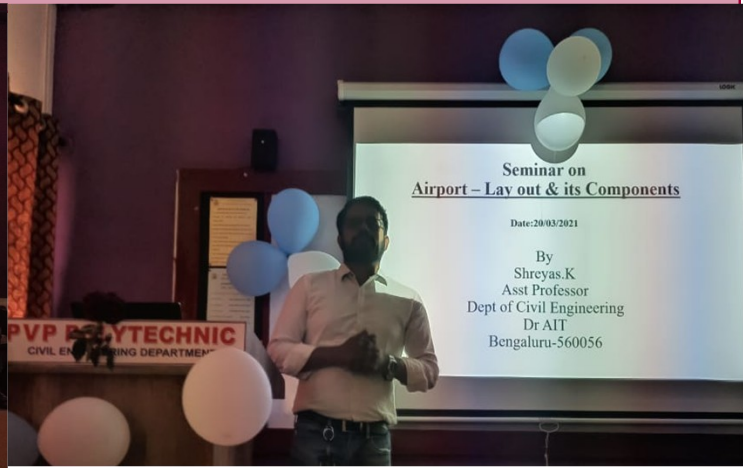
Dr. G Rajendra

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.

Workshop Organised

Airport – Layout & its Components on 20.03.2021



Survey Camp

The Department conducted 7 Days Survey Camp for VI semester students of Civil Engg. as a part of academics at Bangalore University Campus (Jnanabharathi) from 15th to 21st March 2021 under the supervision of Dr.Chandrashekar, the Camp Offi-



Students at New Tank Project



Students at Highway Project



Students at Old Tank Project



Fly Leveling

Department faculty visiting the survey camp



KSCST Approved Student Project ‘Studies on Geotechnical Properties of Contaminated Soil along the Vrishabhavathi river Stretch and its Implications on Environment’

Students: Mr. Vinod Kumar, Mr. Shivaraj M Mulugund, Ms. Pallavi .N and Ms. Sudharani. S Reddy under the guidance of Dr. S.D Venkataraja Mohan

Publications

- ◆ Dr. Yamuna Devi C R, Abhaya Kumar Deshmukh, **Flow Analysis of Gigabit Computer Network traffic at wire speed using Monosek**, *International Journal of Computer Science and Information Security (IJCSIS)*, ISSN 1947-5500, Vol. 19, No. 1, February 2021. DOI : 10.5281/zenodo.4533333
- ◆ Vidya Honguntikar and G. S. Biradar, **Energy Efficient Scheduling in Wireless Sensor Networks Based on Residual Energy Levels of Sensor Nodes**, *International Journal of Creative Research Thoughts , (IJCRT)*, ISSN:2320-2882 Volume 9, Issue 1, 27.01.2021.
- ◆ Lakshmi M, Prashanth C. R., **Designing an Energy Efficient Clustering in Heterogeneous Wireless Sensor Network**, *International Journal of Computer Networks and Communications*, vol. 13, no.1 , pp.75 - 92, 2021.

Workshops Organized

Workshops Attended by Faculty

AICTE Training And Learning (ATAL) Academy sponsored online FDP on **Machine Learning using Python** (Artificial Intelligence) during 4th – 8th January 2021, Coordinator : Dr. Prashanth C R

AICTE STTP on **Satellite Image And Video Data Analytics** from 2021-3-22 to 2021-3-27 at Dr. AIT Coordinator Dr. Yamuna Devi C R

- ◆ Dr.Prashanth C. R., AICTE sponsored workshop on **Examination Reforms**, from 15th to 18th January 2021.
- ◆ Dr. Prashanth C R Springer International Conference on **Recent Trends in Machine Learning, IoT, Smart Cities and Applications** held during 27th, 28th March 2021 and presented a paper titled **A Back Propagation Neural Network Model and Efficient Routing Security Mechanisms against Blackhole Attack in HWSNs** ,
- ◆ Dr. Sudha H Thimmaiah, Dr.Vidya Honguntikar, AICTE Training And Learning (ATAL) Academy Online FDP on **Wearable Devices** from 2021-1-18 to 2021-1-22 at University Visvesvaraya College of Engineering.
- ◆ Dr. Vidya Honguntikar, Praveen K B, Soumya M, AICTE Training And Learning (ATAL) Academy Online FDP on **Artificial Intelligence** from 2021-1-4 to 2021-1-8 at Dr. Ambedkar Institute of Technology.
- ◆ Dr. Sudha H Thimmaiah, AICTE sponsored FDP on **Inculcating Universal Human Values in Technical Education** from 2021-3-22 to 2021-3-26
- ◆ Praveen K B , **Smart City: Recent Developments in Smart City (SMART-2020)** from 22nd to 27th February 2021 at Sri Siddhartha Institute of Technology, Tumakuru, Karnataka, India.

Praveen K B, **Advanced and New Generation Materials in Electrical and Electronics Engineering** , B.M.S. College of Engineering, from 8th Feb 2021 to 19th Feb 2021.

Praveen K B, AICTE-AQIS Sponsored STTP on **Behavioural Remodelling for Enhancing Classroom Delivery of Teachers** from 22nd to 27th February 2021, Dr. AIT,

Praveen K B, AICTE-AQIS Sponsored STTP on **Design & Development of IoT Applications** EWIT, Bengaluru from 8th to 13th February 2021.

Sowmya M **Data Analytics using Artificial Intelligence and Machine Learning** from 12th to 17th April, 2021, HKBK College of Engineering

Webinar Organised

Dr. Chandrakala V, Recent Advancement in Adaptive Antenna Terminology in on 10th Feb 2021at , Dr. AIT.

Mahesan K V, Microsensor Applications in Defence and Aerospace organized by Institute of Smart Structures and Systems (ISSS), Pune chapter on 16/03/2021.

Talks Delivered

Dr. Prashanth C R - Delivered the following lectures at AICTE sponsored One Week FDP on **Outcome Based Education and Accreditation** under Margadashan scheme from 22nd to 27th February 2021, at Dr. AIT.

1. **Course Outcomes – Target Setting and Revision Strategies.**
2. **Assessment - Strategies to Assess COs, POs & PEOs**
3. **AICTE Exam Reforms**

Patent Filed

Dr. B. Sivakumar - Multiband Microstrip EM Structure Notch for the Filters and Amplifier in the month of Jan 2021.

PhD's Awarded

Sudha H Thimmaiah.- awarded Ph.D. from PRIST University in the field of Wireless Sensor Networks from November 27th 2020.

Aravinda H L - awarded Ph.D. from Jain University in the field of Image Processing on January 23th 2021.

Shruthi P C - awarded Ph.D. from VTU in the field of Optical Communication from January 12th 2021.

FDP Organised:

Outcome Based Education and NBA Accreditation Date: 22nd to 27th February 2021

The FDP was inaugurated by the Principal Dr G Rajendra, Dean Academic Dr Siddaraju, Program chief coordinator Dr. M Meenakshi and the speakers of the FDP and the mentee institute Principals, Dr. AIT is the mentoring institute under the AICTE Margadharshak scheme.

This Faculty Development Programme (FDP) addresses the need to enhance the knowledge about the latest Outcome Based Education, its implications in teaching learning, assessment, evaluation and NBA Accreditation. NBA accreditation promotes new and innovative methods in the engineering and associated fields of education system, provides consultation and guidelines for educational programmes through outcome based education. Main objective of this FDP is to educate the young as well as senior faculty members of MBIs of Dr AIT on how to reorient their teaching learning processes to implement OBE for NBA accreditation

FDP Attended

- ♦ Mr. Prasanna Kumar M, Ms. Shubha P, Ms Monikashree T S, Ms. Nirmala Bai L, FDP on **Entrepreneurship** organized by GATES Institute of Technology from 15-03-2021 to 27-03-2021.

Webinar Attended

Ms. Monikashree T S, Ms. Soumya B S, Ms. Hamsa Rekha **Natural Language Processing using NLTK and Deep Learning Models** at Dr. AIT..

Talks Delivered by Dr. M Meenakshi

Online talk on **National Education Policy** at T. John institute of Technology on 25-03-2021

Online talk on **Augmented Learning through Digital Learning** at K. S. Rangasamy College of Technology, Tiruchengode, Tamil Nadu on 30-03-2021

Online talk on **National Education Policy** at Geethanjali College of Engineering and Technology, Telengana on 9-04-2021

KSCST Sponsored Student Project

Ms. Chandana V, Ms. Chaitrashree, Ms. Sakshi sharma and Mr. Sanjay S under the guidance of Ms. Hamsa Rekha S D for the project titled “Voice controlled Robot with surveillance camera using LAB-

Department of Information Science & Engineering

Publications

Dr.Chandrakanth G.Pujari

- ◆ **Six Sigma Approach in Proposals of Software Development and Project Management (SDPM) in a Transactional Atmosphere**, *International Journal of All Research Education & Scientific Methods, (IJARESM), ISSN No.:2455-6211, Vol. 9 Issue 1, Jan. 2021*
- ◆ **The Lean Six Sigma practices in Software Development Organization Using Interpretive Structural Modelling Approach**, *Kala Sarovar ISSN:0975-4520 Vol-23 No.02(III), 2021*

Webinars Organised

AICTE-ATAL sponsored FDP on **Data Science and Data Analytics with Hands-on Experience** during 1/2/2021 to 5/2/2021 Coordinated by Dr. Nandini Prasad KS

Dr.Nandini Prasad K S organized **National Education Policy Webinar** on Importance of Digital Education in Engineering Under TEQIP-III in association with IET, Ayodhya, UP on 18/2/2021.Coordinated by Dr. Nandini Prasad KS

NVIDIA Academic Partnership for Enabling AI/DL Lab in association with DIGITAL TRACK Bengaluru on 5/1/2021 Coordinated by Mr. Satish B. Basapur

Webinars Attended

- ◆ Dr. Chandrakanth G. Pujari AICTE Quality Improvement Scheme (AQIS) Sponsored Short Term Training Programme **On Satellite Image and Video Data Analytics** during 22/3/21 to 27/3/21 at Dr. Ambedkar Institute of Technology.
- ◆ Mr. Satish B.Basapur AICTE Training And Learning (ATAL) Academy online FDP on **Artificial Intelligence, Machine Learning and Deep Learning** during 1/2/2021 to 5/2/2021 at University Visvesvaraya College of Engineering, Bengaluru.
- ◆ Mrs. Neetha Natesh, Mrs. Jyothi S and Mrs. Vanishree A AICTE Training And Learning (ATAL) Academy Online FDP on **Artificial Intelligence** during 4/1/2021 to 8/1/2021 at Dr. Ambedkar Institute of Technology.

Lecture and Talk Delivered Outside

Dr. B.S. Shylaja spoke on the topic **Discussion on SAR (Criteria 1 to 3)**. at FDP on OUTCOME BASED EDUCATION and NBA ACCREDITATION during 22-2-2021 to 27-2-2021 sponsored by AICTE funded MARGDARSHAN Organised by Dept. of IE, Dr.AIT

Achievements

The two faculty members Dr. Nandini Prasad K S and Ms. Vijayalakshmi R Patil has received appreciation by SWAYAM/NPTEL as **NPTEL ENTHUSIAST and NPTEL DISCIPLINE STARS** respectively for their successful completion of the multiple courses.

Dr.B. S. Shylaja received “Certificate of Appreciation “ **Award for Outstanding Contributions for Women Welfare Leading to the Step for Women Empowerment** . It was announced during Online program organised by “SHIKSHAK KALYAN FOUNDATION”, chaired by Dr Shiksha Darbari, Joint Secretary, Rajya Sabha, Secretariat, New Delhi on 27-3-2021.

PATENTS

1. **Title of the Invention:** BRAIN TUMOR DETECTION and CLASSIFICATION USING DEEP LEARNING MODEL AND METHODS THEREOF Date of filing of Application :13/03/2021
Name of Inventors : Dr.Nandini Prasad K S, Mrs.Chetana Srinivas
2. **Title of Invention:** TRAFFIC POLICE OCCUPATIONAL STRESS MODEL and COPING STRATEGIES THEREOF
Name of Inventors : Dr. Pradeep K R, Puneet S, Dr. Deepa Yogish, Dr. Nandini Prasad K S, Dinakar K S, Dr Priti, Dr Suresh D Date of filing of Application :02/04/2021

Reported By: Dr. Nandini Prasad KS

Publications

T N Raju, Preethi K & Shivappa H A **Processing, Microstructure, Hardness and Wear Behaviour of Carbon Nanotube Particulates Reinforced Al 6061 Alloy Composites**

Dr. Vishwanath M M, **Computational Investigations of Heat Transfer and Mass Flow in GTA Welding of AA6061 Plates**, Indian Welding Journal

Webinars Attended

Dr. Vishwanath M .M, 3rd International Conference on Advances in Mechanical Engineering and Nano Technol-

Congratulations PhD Awardees

Dr. Ranjith . V , PhD Title 'Studies on Mechanical and Thermal Characteristics of Micro-Titanium and CNT Reinforced Copper Based MMC on 24/03/21



Dr. Ranjith V



Dr. Pavan Tejaswi .T

Dr. Pavan Tejaswi .T, PhD Title Studies On Retrogression And Reaging Of Aluminium- Zinc-Magnesium (7075) Alloy on 03/04/2021



Dr. Vishwanath M .M

Dr. Vishwanath M .M, Studies on Heat Transfer and Mass Flow in Welding Processes Using Computational Approach on 16/04/2021

Department of Medical Electronics Engineering

Publications

- ◆ D K Ravish & A P Manjunatha **Revisiting Electrical Safety Design and Risk Management for Medical Devices** LINO Journal: ISSN 0211-2574, Volume no 11, Issue no 2, Feb 2021 PP 1- 10: .
- ◆ D K Ravish. **Design and Development of Vibroorthogram Screening Device and Assessment of Joint Motion in the Pursuit of Signal Processing.** ICTACT Journal, ISSN No 0976-9102, Vol 11, Issue 4, May 2021, PP 2453-2459.

FDP & Webinars Attended

- ◆ Dr.D.K.Ravish
 - ◆ FDP on **Entrepreneurship** from 15th to 27th March 2021, Organised by Department of Science & Technology, Government of India, Ananthapuram-515401, AP,
 - ◆ FDP on **Recent Trends in Photonics**, from 14th to 19th June 2021, Organized by Department of ECE, The Oxford College of Engineering, Bangalore-68,
 - ◆ FDP on **Policy Initiative and Quality Enhancement in Higher Education**, from 5th to 11th May 2021, Academic Research Group, Kolar-563101
 - ◆ **Diagnostic Dilemmas in Platelet Coagulation Disorders**, 10th April 2021, organized by Mindray & Department of Pathology, Government Medical college, Kottayam, Kerala
 - ◆ **Intellectual Property Rights**, from 26th and 27th April 2021, State Council for Science and Technology, Government of Tamilnadu, Chennai & Sathyabhama Institute of Science.
- ◆ Kamala C
 - ◆ **FDP on Applications of Artificial Intelligence & Machine Learning**, , from 10th to 14th May 2021, School of ECE, Reva University
 - ◆ **Indo-Canadian workshop on Nano-Bioengineering** , on 3/13/2021, organized by the Department of Biotechnology, IIT Roorkee and Centre for Biomedical Research (CBR), University of Victoria (UVic) Canada,
- ◆ Seema B S

Talks Delivered

Dr. DK Ravish

1. **Recent trends in Electrophysiology and Bioinstrumentation** on 10.1.2021 at Vel Tech Rangarajan R&D Institute of Science and Technology, Chennai, TN.
2. **Implementation of Integrated Learning Approach in Biomedical Measurement and Instrumentation** on 7.1.2021 at SSIT, Tumkur.
3. **Medical Image Processing, An Overview and Case Studies in Diagnosis** on 19.2.2021 at NIE, Mysore.

Publications:

- Dr. Shailaja M L **Dynamics of Green Banking for Sustainability & Growth – Indian Context** In International Journal of Business Administration Research & Review, Volume -8, Issue-1, Jan-March 2021, Page No.-25 to 30 –IJBARR – E-ISSN-2347-856X & Print – ISSN -2348-0653, Impact factor-6.304.
- Ms. Vidya R Published **Dynamics Of Green Banking For Sustainability & Growth – Indian Context** In International Journal of Business Administration Research & Review, Volume -8, Issue-1, Jan-March 2021, Page No.-25 to 30 –IJBARR – E-ISSN-2347-856X & Print – ISSN -2348-0653, Impact factor-6.304.
- Ms. Kavitha S **A Study On Consumer Behaviour Towards Online Furniture Shopping** In Bangalore in an International Journal of creative research thoughts (IJCRT), Volume 9, Issue 1, January 2021. ISSN: 2320-2882.
- Dr. Rajeshwari R **A Study On Consumer Perception Towards Ready To Eat Food Products**, Bengaluru with ISBN number 978-81-947019 in the **India Book of Records and Asia Book of Records** in February 2021.
- Dr. Rajeshwari R **Weaving the Threads of Global Mindset In MBA Education** in with ISBN 978-81-947019-0-3 in the World Book of Record in 2021.
- Ms. Kavitha S **A Conceptual Framework On Effectiveness Of Social Media Strategies** in Commerce and Management, ESN publications, First Edition 2021, February 2021, ISBN : 978-93-90781-07-2.
- Dr. Leela M H **A Study On The Performance Evaluation Of Top Performance Mutual Schemes Under Equity And Debt Of HDFC Mutual Funds** in Commerce and Management, ESN publications, First Edition 2021, February 2021, ISBN : 978-93-90781-07-2.

Webinar Organised

Dr. Baskaran S & Ms. Vidya R organised a National Webinar on **Retire Early Retire Rich through Personal Financial Planning** at Dr AIT on 8th January 2021

Pratap Memorial Rajput College of Commerce, Jammu (J&K) in Collaboration with Association of Mutual Funds of India held on **05th April 2021**.

Webinar Attended

nataka in

Dr. Rajeshwari R R Attended ATAL AICTE on **Stress Management** at Government College of Engineering, Srirangam, from 1.2.2021 to 5.2.2021.

Dr. Rajeshwari R R & Ms. Kavitha S AICTE on **Moral, Values, and Behavioural Sciences** at GL Balaji Institute of Technology and Management from 8.2.2021 to 13.2.2021.

Dr. Leela M H Attended the following

- ◆ National Webinar on **Financial Empowerment Through Wealth Creation 20th March 2021**. Organized by Department of Business Studies, Central University of Kar-

Collaboration with Association of Mutual Funds of India (AMFI)

- ◆ National Webinar on **Financial Planning and Investment Opportunities** 05th April 2021 Organized by Sri Pratap Memorial Rajput College of Commerce, Jammu (J&K) in Collaboration with Association of Mutual Funds of India held on

TALKS DELIVERED

1. Dr. S. Baskaran was a Panelist at the discussion on the topic **Financing the Skill Development** IFIM College, Bangalore on 19th March 2021.
2. Dr. Shailaja M L on the topic **Practical Implications of GST** at Jindal Degree College for Women, Jindal City, Bangalore, on 20th January 2021 .
3. Dr. Shailaja **Importance of MSME's in the Economy** in the National Level Webinar on Trends In Commerce & Socio Economic Factors Impacting The Economy St. Joseph's College of Commerce, Bengaluru, on 5th February 2021 .

INDUSTRIAL VISIT

Seetha Ice-cream Private Ltd., Bidadi Industrial Area





Reported by: S. Kavitha

Publications

- ◆ C.E. Nanjundappa, A Pavithra, 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, 2021, pp: 1-20.
- ◆ Y.L. Savitha and C.E. Nanjundappa, I.S. Shivakumara, **Penetrative Brinkman Ferroconvection Via Internal Heating In High Porosity Anisotropic Porous Layer: Influence Of Boundaries**, Heliyon, Vol-7, 2021, pp: e06153
- ◆ R. Suprabha, C.R. Mahesha, C.E. Nanjundappa, **Internally Heated Penetrative Benard Marangoni ferroconvection: Effect of MFD viscosity**, AIP Conference Proceedings, Vol-2327(1), 2021, pp: 020038.
- ◆ Silvia Leera Sequeira, B. Sooryanarayana, Chandru Hegde, **Neighborhood Alliance In Join Of A Graph With K1** J. Math. Comput. Sci., Vol-11(3), 2021, pp: 2624-2649.
- ◆ Badekara Sooryanarayana, A.S. Suma, S.B. Chandrakala, **Certain Varieties of Resolving Sets of A Graph**, Journal of the Indonesian Mathematical Society, Vol-27(1), 2021, pp: 103-114.
- ◆ Chandrakala Sogenahalli Boraiah, Roshini Gujar Ravichandra, Sooryanarayana Badekara, **Topological Indices of Transformation Graphs of a Compliment Graph: A Recent Study**, New Ideas Concerning Science and Technology Vol. 10, 2021, pp: 46-56.
- ◆ Mitra Kunjaru, D'Silva Sunita, Priya, Sooryanarayana Badekara, **Zagreb Alliance Indices**, Advances in Mathematics: Scientific Journal, Vol. 10(3), 2021, pp: 1273-1284.
- ◆ Prasanna Poojary, A. Raghavendra, B. Gautham Shenoy, Mohammad Reza Farahani, Badekara Sooryanarayana, **Certain Topological Indices and Polynomials for the Isaac Graphs**, Journal of Discrete of Discrete Mathematical Sciences and Cryptography , Vol. 24(2), 2021, pp: 511-525.
- ◆ Narahari Narasimha Swamy, TL Sangeetha, Badekara Sooryanarayana, **General Fifth M-Zagreb Polynomials of the TUC4C8(R)[p, q] 2D-Lattice and its Derived Graphs**, Letters in Applied NanoBioScience, Vol. 10(1), 2021, pp: 1738-1747.

Webinar Attended

- ◆ Dr. Jayalakshmi M, Dr. Padma M M, Dr. H. Nagarathnamma, Dr. Sunitha Kulkarni and Dr. Shivaprasanna G S participated in two weeks UGC sponsored Refresher course on Mathematics held during 18th Jan to 1st Feb 2021 conducted by UGC-HRDC, Bangalore University, Bengaluru
- ◆ Dr. Padma M M, participated in UGC sponsored FDP on Aspects of Mathematics held during 22nd Jan to 28th March 2021 conducted by Dwaraka Doss Goverdhan College, Chennai.

Congratulations
GATE –2021 Qualifiers



Medical Electronics

Naveen A Rank 126

Civil Engineering



POOJA.S
Rank: 10504



SHIVAJI DHONE
Rank: 18875



NIRUPAMA P.N
Rank:12231



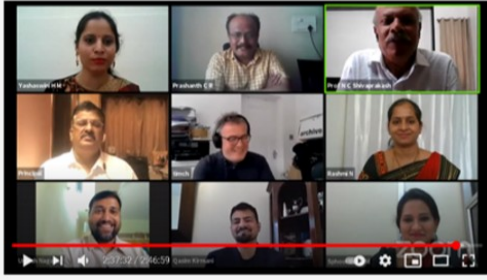
GOUTHAM H.M
Rank: 5531



HEMANTH KUMAR.S
Rank: 10747



ABHISHEK T.K
Rank: 4700



EDITORIAL :

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