

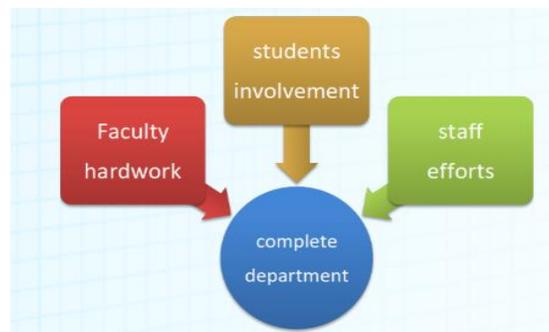
Newsletter January to March 2020

Vision

To create a centre for imparting technical education of international standards and conduct research at the cutting edge of electronics & communication technology to meet the current and future challenges of technological development.

Mission

To create technical manpower for meeting the current and future demands of industry and academia; to recognize education and research in close interaction with electronics & communication & related industry with emphasis on the development of leadership qualities in the young men and women entering the portals of the institute with sensitivity to social development and eye for opportunities for growth in the international perspective.



Seminar/Symposia/Workshop/Conference/STC Organized:



1. International Conference on **AISP 2020** at VIT AP University, Amaravati, AP, India from 10-01-2020 to 12-01-2020.

Publications



1. S. Singhal and Jaiverdhan , "Hexagonal Fractal Antenna For Super Wideband Terahertz Applications" , **Optik - International Journal for Light and Electron Optics** Volume :0 / 1-10 / 2020.
2. Jaiverdhan, S. Singhal, M. M. Sharma and R. P. Yadav , "EPSILON SHAPED CIRCULARLY POLARISED STRIP AND SLOT LOADED ULTRA WIDEBAND ANTENNA for Ku-&K-BAND" , **International Journal of RF and Microwave Computer-Aided Engineering** Volume :0 / 1-11 / 2020.
3. Vivek Raghuwanshi, Deepak Bharti, Ajay Kumar Mahato, Amit Shringi, Ishan Varun, and Shree Prakash Tiwari , "High Performance Flexible Organic Field-Effect Transistors with Barium Strontium Titanate Gete Dielectric Deposited at Room Temperature" , **ACS Applied Electronic Materials** Volume :2 / 529-536 / 2020.
4. P Singh, R K Chaurasiya, S Verma , "A Single Channel P300 BCI-Based Speller for Home Appliances Control System" , **International Journal of E-Health and Medical Communications** Volume :0000 / 0-0 / 2020 ISBN: 1947-315X.
5. D. K. Kotary, S. J. Nanda , "Distributed robust data clustering in wireless sensor networks using diffusion moth flame optimization" , **Engineering Applications of Artificial Intelligence, Elsevier** Volume :87 / 103342 / 2020 ISBN: ISSN: 0952-1976.
6. Nawaz Shafi, Chitrakant sahu, and C.Periasamy , "Analytical Modeling of Surface Potential and Drain Current for Virtually Doped Symmetrical Dielectric Modulated BioFET" , **IEEE Sensors Journal** Volume :1 / 1-8 / 2020.
7. Usha Choudhary, Vijay Janyani , "Bandwidth Efficient Frame Structures for Flip OFDM with Phase Conjugated Sub Carriers and LDPC Encoding" , **Optik - International Journal for Light and Electron Optics (ACCEPTED)** Volume :0 / 0-0 / 2020.
8. R. K. Garg , M.V. D. Nair , S. Singhal and R. Tomar , "A New Type of Compact UWB Planar Fractal Antenna With WLAN Band Rejection" , **MICROWAVE and OPTICAL TECHNOLOGY LETTERS(Accepted)** Volume :0 / 1-8 / 2020.
9. Sharma, Niketa, Singh, Kuldeep, Chaturvedi, Nitin, Chauhan, Ashok, C, Periasamy, Kharbanda, Prajapat, Priyavart, Dheeraj, Khanna, P, Chaturvedi, Nidh , "High Resolution AlGaIn/GaN HEMT based Electrochemical Sensor for Biomedical Applications" , **IEEE Transactions on Electron Devices** Volume :67 / 289 / 2020 ISBN: 1557-9646.

10. Hemant Sharma, K K Sharma , "Sleep apnea detection from ECG using variational mode decomposition" , **Biomedical Physics and Engineering Express** Volume :00 / 4 / 2020.
11. S. Singhal , "CPW Fed Koch Snowflake Superwideband Terahertz Spatial Diversity Antenna" , **Optik - International Journal for Light and Electron Optics (ACCEPTED)** Volume :0 / 1-8 / 2020.
12. Y. Hirpara and R. Saha , "Analysis on DC and RF/Analog Performance in Multifin-FinFET for Wide Variation in Work Function of Metal Gate" , **Silicon** Volume :20 / 1-6 / 2020.
13. ANKUR SAHARIA, NITESH MUDGAL, ANKIT AGARWAL, KAMAL KISHOR CHOURE, JALIL ALI, PREECHA YUPAPIN, RAVI KUMAR MADDILA, GHANSHYAM SINGH , "Elementary magnitude comparators and flip-flop using Si₃N₄ based microring resonator" , **Optoelectronics and Advanced Materials- Rapid Communications** Volume :14 / 43-52 / 2020.
14. S. Singhal, Jaiverdhan and A. K. Singh , "Elliptical Monopole Super Wideband Fractal Antenna" , **MICROWAVE AND OPTICAL TECHNOLOGY LETTERS** Volume :0 / 1-8 / 2020.
15. S. Singhal , "Tetradecagonal Ring Shaped Terahertz Superwideband MIMO Antenna" , **Optik - International Journal for Light and Electron Optics** Volume :0 / 1-8 / 2020.
16. Manisha Kumawat, Kirti Vyas, R.P.Yadav , "Design of DGS Enabled Simple UWB MIMO Antenna having improvement in Isolation for IOT Applications" , **Book Chapter** Volume :10.1007 / 978-981 / 2020.
17. M. Ali, K. K. Sharma, R P. Yadav , "Design of a Compact 4-Way Power Divider Using 1/64th Mode Elliptically Curved SIW Resonators" , **PIER Letters** Volume :89 / 21-28 / 2020.
18. Ishan Varun, Deepak Bharti, Ajay Kumar Mahato, Vivek Raghuwanshi, and Shree Prakash Tiwari , "High Performance Flexible Resistive RAM with PVP:GO Composite and Ultra-thin HfO_x Hybrid Bilayer" , **IEEE Transactions on Electron Devices** Volume :67 / 949 - 954 / 2020.
19. R. Saha, B. Bhowmick, and S. Baishya , "Impact of lateral straggle on linearity performance in gate-modulated (GM) TFET" , **Applied Physics A: Material Science and Processing** Volume :126 / 1-4 / 2020.

Placement Data

Pariksha Pe Charcha 2020 (20-01-2020):



The Prime Minister, Shri Narendra Modi, interacted with students as part of Pariksha Pe Charcha 2020 at Talkatora Stadium, New Delhi. 50 Divyang students also took part in the interaction programme. The interaction, which lasted for over ninety minutes, saw students seeking guidance on various issues of importance to them from the Prime Minister. This year too, students from across the country, and also Indian students residing abroad, participated in the event.

At the outset the Prime Minister wished all the students for a prosperous new year and a new decade. Explaining the importance of the decade, the hopes and aspirations of the current decade rest on those kids who are in their final years of schooling in the country.

He said, "In whatever the country does in this decade, those kids who are in 10th, 11th and 12th standards now have a very great role to play. To make the country reach new heights, to achieve new hopes, all this is dependent on this new generation".

Before beginning the interaction, the Prime Minister said notwithstanding that he attends various events and programmes, the one event which is dear to his heart is the Pariksha Pe Charcha.

To a question on the importance of technology and its use in education, the Prime Minister said,

While asking the students to keep themselves updated with the latest in technology, the Prime Minister also urged them to be careful of the perils of its misuse. "Fear of technology is not good. Technology is a friend. Merely knowledge of technology isn't enough. It's application is as important. Technology is a part of our daily lives, but if we misuse it, it robs our valuable time and resources", he said.

Newsletter Team:

Dr Menka; Assistant Prof, ECE

Basudha; PhD Scholar

Shalini Chaudhary; PhD Scholar