

# NEWSLETTER

DEPARTMENT OF  
ELECTRONICS &  
INSTRUMENTATION  
ENGINEERING,  
SHRI G. S. INSTITUTE  
OF TECHNOLOGY &  
SCIENCE, INDORE

Year - 2020-21

**Cheif Editor**  
**Dr. R. S. Gamad**  
**Editors**  
**Mr.Rajesh Khatri**  
**Mr.R.C. Gurjar**  
**Ashwin Gupta**

## **Institute Vision & Mission**

### **Vision**

**A front-line institute in science and technology making significant contributions to human resource development envisaging dynamic needs of the society.**

### **Mission**

**To generate experts in science and technology akin to society for its accelerated socioeconomic growth in professional and challenging environment imparting human values.**

## **Department Vision Mission**

### **Vision**

**The department is committed to provide a holistic education that transforms the students into responsible engineers and facilitates them to build successful careers and excel in the field of Electronics and Instrumentation with social and ethical standards.**

### **Mission**

**To prepare emerging Electronics and Instrumentation engineers to possess good communication skills with the ability to work in multi-disciplinary groups, lead teams and understand their professional and ethical responsibilities for serving the needs of the society.**

## DEPARTMENTAL ACTIVITY IN SESSION 2020-21.

### 1.LIST OF PAPER PUBLISHED BY THE FACULTIES AND STUDENTS IN ACADEMIC YEAR 2020-21

1. Raviraj singh,Rajesh Khatri and R.C. Gurjar, "Design of multifunctional small digital integrated circuits(IC) using 180nm CMOS Technology" Fourth International Conference on Electronics, Communication and Aerospace Technology (ICECA-2020) during 5-7 Nov-2020 IEEE Xplore Part Number: CFP20J88-ART; ISBN: 978-1-7281-6387-1.
2. Harshita Kushwah, R.S. Gamad and R.C. Gurjar, " Design of Low Power & High Speed Comparator of SAR ADC using 180nm Technology" Fourth International Conference on Electronics, Communication and Aerospace Technology (ICECA-2020) during 5-7 Nov-2020 IEEE Xplore Part Number: CFP20J88-ART; ISBN: 978-1-7281-6387-1.
3. Shreya Jaiswal, R.C.Gurjar and R.Khatri "Design of Wide Band Class-F LC VCO using 180 nm CMOS Technology" 1st International Science Exhibition Congress Symposium (SECS-2020) organized by IETE & ISVE at Advanced Regional Telecom Training Centre, BSNL, Hazaribag Road, Ranchi-835217, Jharkhand, India during Sept. 12 -13th, 2020.
4. S. R. Mansore and R. S. Gamad A 32nm Read Disturb-free 11T SRAM Cell with Improved write ability Int. Journal of Circuits, Systems and Computers World Scientific Publishing Company 2020 Vol. 29, Issue 05, (16 pages) ISSN:2050067, DOI: 10.1142/S0218 12662050067X.
5. Anju Lata Yadav, P. D. Vyavahare, and P. P. Bansod QoS in WiMAX hybrid schedulers for heterogeneous traffic and their performance comparison International Journal of Electronics, Taylor and Francis, Volume 107, 2020 -Issue 4 <https://doi.org/10.1080/00207217.2019>.
6. Lavesh Jain, Dr. P.P. Bansod and Dr. D. K. Mishra Design of Band Pass Filter and Main Amplifier for Biomedical application using 180nm Technology 5th International Conference on Microelectronics Computing & Communication Systems (MCCS- 2020), Springer in Advanced Communication System & Machine Learning Paper ID: MCCS 20144.
7. Vaibhav Pardhi, Dr.P.P. Bansod and Dr. D.K. Mishra, "Design of Instrumentation Amplifier and Buffer for Biomedical Applications using 180nm Technology" Scopus indexed conference International 5th International Conference on Microelectronics Computing & Communication Systems (MCCS- 2020), Springer in RF VLSI Design & Computer Network Paper ID: MCCS 20145.
8. S. R. Mansore and R. S. Gamad, A 32nm Read Disturb-free 11T SRAM Cell with Improved write ability Int. Journal of Circuits, Systems and Computers World Scientific Publishing Company 2020 Vol. 29, Issue 05, (16 pages) ISSN:2050067,DOI:10.1142/S0218 12662050067X 2020
9. Karuna Kumawat, D. S. Ajnar and P. K. Jain, "Design and Analysis of Noise Immune High Speed and Leakage-Tolerant Schmitt Trigger using 180nm CMOS Technology" 2021 IEEE Madras Section Conference (MASCON) 2021.

**10. BOOKS/BOOK CHAPTERS PUBLISHED BOOKS/BOOK CHAPTERS PUBLISHED**

S.No.	Title of Paper	Name of Author	Name of Conference/ Journal	Year
1	Computation of ADC Parameters using Different Input Signals  “P.No. 37-58”	Dr. R.S. Gamad	AkiNik Publications  Publications Year: 2020  Paperback ISBN: 978-93-90322-61-9  E-Book ISBN: 978-93-90322-62-6  Book DOI: <a href="https://doi.org/10.22271/ed.book.817">https://doi.org/10.22271/ed.book.817</a>	2020

**3. In SGSITS Indore Department of Electronics and institute organized AICTE approved three online STTP programme on “Mixed Signal and Radio Frequency VLSI Design”. Here is the detail of STTPs.**

S.N.	Name	Session	Coordinator
1	Mixed Signal & Radio Frequency VLSI Design	2020-21	Dr. R.S. Gamad (Coordinator)
	3 STTP held from 23rd Nov to 19th Dec2020		
	STTP-1 during 23rd to 28th Nov 2020		
	STTP-2 during 07th to 12th Dec 2020		
	STTP-3 during 12th to 19th Dec 2020		

**4. No. of Ph. D. No. awarded/Submitted**

S.No.	Name of student	Guided by	Co-Guide
1.	Vaishali Naik	Dr. R.S. Gamad	Dr. P.P. Bansod
2.	Alpana Deshmukh	Dr. R.S. Gamad	Dr.D.K.Mishra
3.	Mr. Yudhisthir Raut	Dr. R.S. Gamad	Dr. P.P. Bansod

