Eligibility & Regulations:

1. http://research.vtu.ac.in/,

2. https://vtu.ac.in/en/ph-d/#

3. https://vtu.ac.in/en/msc/

4. https://vtu.ac.in/en/ph-d-syllabus/

Research Supervisors:

Sl. No	Name of the faculty	Designation	Specialization
1.	Dr. Suraiya Tarannum	Professor	Wireless Communication
2.	Dr. Maaz Ahmed	Asst. Professor	High Power Computing
3.	Dr. B P Pradeep Kumar	Asst. Professor	Wireless Communication

Patents filed:

1. Mr. Abdul Saleem, Dr. Pradeep Kumar,Mr.Shaik Imam and Mr. Mohammed Jebran P filed a patent on "An apparatus and method for determining one or more veins of an object", 201941033262 August 2019

2. Dr. B.P Pradeep Kumar has filed a patent "Motorized Day Bed Control Interfaced with an Ingrained System by Simple Physical Movements" , application no: 201941031332, 2/8/2019

3. Dr. B.P Pradeep Kumar has filed a patent "An apparatus and method for determining one or more veins of an object" application no: 201941033262, August 2019.

4. Dr. B.P Pradeep Kumar has filed a patent "Design and development of wireless wall climbing robot electrical ducted Fan", application no: 201941020560, 14/6/2019.

5. Mrs. Nikhath Tabassum has filed a patent on " Clock Synchronization of nodes in wireless sensor networks by approaching unity" pp 12455, 6/3/2020

Publications:

Sl.No	Year	Name of the author	Title of the Paper	Type	Citation Index
1.	2019	Mohammed Jebran P, Abdul Saleem, Shaik Imam, Pradeep Kumar	Wireless bimetric attendance monitoring systm using labview	International Journal	IJERP, Volume 2, issue 1 , july 2019
2.	2019	Nayana Hegde,Anees Fatima	Implementation of Energy Harvesting Mechanism for Wireless Sensor Network	International Journal	CEJ,vol1 , issue 12 ,pp.516-523, Dec 2019
3.	2019	J.Surendiran	X-RAY CT Reconstruction by using Spatially Non Homogeneous ICD Optimization	International Journal	IJEAT, vol 8, issue 6s3,pp.2043-2046, sept 2019
4.	2019	J.Surendiran	A new framework for video data retrieval using hierarchical clustering technique	International Journal	IJEAT ,vol 8, issue 6s3,pp.2052-2055, sept 2019
5.	2019	J.Surendiran	Video Data Retrieval using Image Color Histogram Technique	International Journal	IJEAT ,vol 8, issue 6s3,pp.2056-2060, sept 2019
6.	2019	J.Surendiran,B.P .Pradeep kumar	Design and Implementation of Kogge Stone adder using CMOS and GDI Design: VLSI Based	International Journal	IJEAT ,vol 8, issue 6s3,pp.2181-2182, sept 2019
7.	2019	Dr.Suraiya Tarannum	Wireless Sensor Networks for Healthcare Monitoring: A Review	International Journal	Inventive Computation Technologies, Springer, Scientific Publishing Services (P) Ltd. Vol 98, pp-669-72
8.	2019	Nayana Hegde, Sunilkumar S. Manvi	Hash Based Integrity Verification for Vehicular Cloud Environment	International Conference	IEEE CCEM, 2019
9.	2019	Dr. Suraiya Tarannum	Wireless Sensor Networks for Healthcare Monitoring: A Review	International Conference	ICICT (International Conference on Inventive Computation Technologies) 2019, Coimbatore
10.	2019	Dr. Suraiya Tarannum	Efficient Channel Estimation with Optimization Algorithms based Pilot Pattern Design for MIMO-OFDM Wireless Networks	International Conference	International Conference on Emerging Trends in Science and Technologies for Engineering Systems (ICETSE-2019)

11.	2019	Dr.Pradeep	Framework of ASL Silhouette gesture recognition system		IJITEE Vol.8, issue 6, pp. 66-72, 2019
12.	2019	Zahira Tabassum	Smart Grid Analysis-A karnataka perspective	International Journal	Journal of Advanced research in dynamical and control systems , Vol.11, special issue,2019
13.	2019	Surendra K.V	design and fabrication of microstrip 2x2 array antenna for s band applications	International Journal	IJRAR Volume 6, Issue 2 , June 2019
14.	2019	Khamer, Harsha,Rashmi, Kehkeshan	Calibration and Volumetric Measurements of Fuelguage for Aviation and Water Craft	International Journal	JETIR, Jun 2019, , vol 6, issue 6
15.	2019	Dr. Suraiya Tarannum	Efficient Channel Estimation with Optimization Algorithms based Pilot Pattern Design for MIMO-OFDM Wireless Networks	International Journal	Elsevier SSRN e-Library and International Journal of Recent Technology and Engineering, IJRTE, Vol.8, issue 1C, ISSN:2277- 3878
16.	2018	Dr.Maaz Ahmed	PSim: A simulator for estimation of power consumption in a cluster	International Conference	International conference held at UC Berkeley, California, USA,
17.	2018	Dr. Suraiya Tarannum, Abdul Azeez	PAPR enhancement using LDPC for MIMO OFDM systems	International Conference	International conference on electrical electronics computers communications mechanical and computing
18.	2018	Akshay P.,Nikhath Tabassum, Imtiyaz Ahmed, Shireen Fathima	Artificial neural network and IoT based scheme in Internet of Robotics Things	International Conference	National conference on emerging trends in VLSI, embedded systems and networking
19.	2017	Nikhath Tabassum ,Geetha D.D	A survey on clock synchronization protocols in wireless sensor networks	International Conference	IEEE Smart Tech conference
20.	2017	Shireen Fathima, Ismail Zabiulla, Sufia Yaseen. Mohammed Furqhan, Mohammed Faizan	E-MAT Security System for Jewellery Shop	International Conference	International conference on Energy , Communication, Data analytics and Soft computing (ICECDS)
21.	2017	Ms.Subiya Yaseen, Ms. Shireen Fathima,Mr. Surendra K.V,	Gesture Controlled Touch Less Response using Image Processing	International Conference	International Conference on Energy, Communication, Data Analytics and Soft Computing

		Md. Jebran			
22.	2018	Harsha Karamchandani	Prosthetic arm for transradial amputees using electromyographic sensors	International Conference	National conference on Recent Advances in Communication, Electronics & Electrical Engineering
23.	2018	Mr. Surendra K.V	Wavelets in the Analysis of Autoregressive conditional heteroskedasticity(ARCH)Models using Neural Network	International Conference	International conference on electrical , electronics and communication engineering, ICEECE
24.	2018	Mr. Surendra K.V, Md. Jebran P, Mr. Shaik Imam and Ms. Subiya Yassen	Design and Implementation of Versatile EBOT Using Raspberry Pi	International Conference	International conference on electrical , electronics and communication engineering, ICEECE

Research Projects:

Ongoing Research 1:

Research Supervisor: Dr.Chandrashekhar Shastry				
Title: "Analysis and Design of Demand Side Management in Smart Grids-A Karnataka Perspective"				
Research Scholar	**USN**	**Full time/ Part time**	**Date of Registration**	**Status of Progress**
Zahira Tabassum	18PHREN029	Part time	2018	Completed course work, Synopsis presentation done.

Ongoing Research 2:

Research Supervisor: DR. A G ANANTH				
Title: DESIGN AND SIMULATION OF EFFICIENT M2M MIMO COMMUNICATION SYSTEMS **ERROR CORRECTIONS FOR ADVANCED WIRELESS NETWORKS"**				
Research Scholar	**USN**	**Full time/ Part time**	**Date of Registration**	**Status of Progress**
Harsha Gurdasani	152PHDEC01	Part time	2016	Completed Course Work

Ongoing Research 3:

Research Supervisor: Dr.Sunilkumar S. Manvi				
Title: Key management authentication and non repudiation for information transaction in vehicular cloud environment				
Research Scholar	**USN**	**Full time/ Part time**	**Date of Registration**	**Status of Progress**
Nayana Hegde	15REPEC07	Part time	2015	Course work completed, preparing thesis

Ongoing Project 4:

Research Supervisor: Dr. Shweta Gupta				
Title: Low Power Design and Circuit Optimization by Leakage Power Reduction Techniques in Submicron CMOS circuits				
Research Scholar	**USN**	**Full time/ Part time**	**Date of Registration**	**Status of Progress**
Sufia Banu	18PHREN026	Part Time	2018	Course Work Completed

Ongoing Research 5:

Research Supervisor: Dr. Suraiya Tarannum				
Title: Algorithms for performance enhancement for wireless MIMO OFDM Networks				
Research Scholar	**USN**	**Full time/ Part time**	**Date of Registration**	**Status of Progress**
Abdul Azeez	5VX14PEM27	Part Time	2014	Comprehensive viva completed

The research is oriented in the field of MIMO OFDM systems. This is an emerging field. We are currently working on low power MIMO OFDM systems.

Ongoing Research 6:

Research Supervisor: Dr. Shweta Gupta				
Title: Detection of Early Stage Diabetic Retinopathy by developing a novel classifier using Machine Learning				
Research Scholar	**USN**	**Full time/ Part time**	**Date of Registration**	**Status of Progress**
Mohamed jebran P	18PHREN024	Part Time	2018	Course work completed

Ongoing Research 7:

Research Supervisor: Dr Chandrashekar Shastri				
Title: Design of an efficient Microstrip Patch Antenna for Agriculture Application				
Research Scholar	**USN**	**Full time/ Part time**	**Date of Registration**	**Status of Progress**
Surendra K V	18PHREN027	Part Time	2018	Course work completed

Ongoing Research 8:

Research Supervisor: Dr. Geetha D D				
Title: Localization and Clock synchronization of nodes in Wireless Sensor Networks				
Research Scholar	**USN**	**Full time/ Part time**	**Date of Registration**	**Status of Progress**
Nikhath Tabassum	R16PEC01	Part Time	2016	Course work completed