


Name of the Faculty	Dr. Towheed Sultana		
Designation	Professor and HOD ECE Dept.		
Date of Joining	24 Nov 2016		
E - Mail	towhsul123@gmail.com		
Educational Qualifications	Name of the Degree	Institute	Class
Ph. D	Doctor of Philosophy Information and Communication Engineering	Anna University Chennai	Awarded
PG	M.E (PE)	PDA College of Engineering Gulbarga University	First
UG	B. Tech (ECE)	PDA College of Engineering Gulbarga University	First
Work Experience			
Teaching	32 Years		
Research	5 Years		
Industry	1 Year		
Responsibilities held at the central level in college	-----		
Responsibilities held at the departmental level in college	HOD		
Courses Handled at UG Level	<ul style="list-style-type: none"> • Digital Electronics • Digital Image Processing • Microprocessor and Microcontroller • IC Applications • Computer Architecture • Network Analysis 		
Courses Handled at PG Level	<ul style="list-style-type: none"> • Digital CMOS Integrated Circuit Design 		
Area of Research	<ul style="list-style-type: none"> • Image Processing , IOT, Embedded Systems 		
Research Guidance for M. Tech/ Ph. D Students	<ul style="list-style-type: none"> • Guided M.Tech Students 		

<p>Books/ Book Chapters Published</p>	<ul style="list-style-type: none"> • Theory and application of symbolic computing with artificial intelligence perspective /Theory of constructive image processing –Geometric filter and its Relevance in the Neighbourhood Processing of Digital Images, Section 17, journal of Research in computer science and Technology, Copy right 2023 London journal press • Interfacing through Microprocessors (8085 and 8086), Introuction to Microprocessors (8051) Sure Publications
<p>Prominent Research Publications in Conferences</p>	<ul style="list-style-type: none"> • Biosensors: Pioneering Progress in Sensing Technologies across Generations Published in: <u>2023 16th International Conference on Sensing Technology (ICST)</u> DOI: <u>10.1109/ICST59744.2023.10460789</u> publisher IEEE • Design and Implementation of Reconfigurable Polyphase Filter Bank Receiver on Artix-7 FPGA IEEE -2019 978-1-5386-9543-2/19/\$31.00 ©2019 IEEE 2019
<p>Prominent Research Publications in Journals</p>	<ul style="list-style-type: none"> • Synthesis, Characterization, Electrical and Sensing Properties of Polypyrrole Nano composites Towheed Sultana 1, Rajesh T2,SK.Jani Basha3, Narsappa Reddy4, Jakeer Husain5 VOLUME 10, ISSUE 3, 2023, PAGE NO: 515, GIS SCIENCE JOURNAL, ISSN NO : 1869-9391 • Detection of depression in Tweets using Sentiment Analysis A Machine Learning Approach, Arshia Sultana 1 and Towheed Sultana 2, International Journal of System Design and Information Processing (IJS DIP) 2023; Volume -11, Issue- 2_Page_185-192 • Guest Greeting And Guiding Robot For Institution Purpose Using Raspberry PI, Paripelli Vamshi1, Sana Naga Venkata Subhash Naidu2, Chinthalapeta Raja Reddy3, Dr. Toweed Sultana, International Journal of System Design and Information Processing (IJS DIP) 2023; Volume -11, Issue-1_Page_185-191 • Designing And Implementation Of Embedded Based Alert System For Overheat Detection In Machines, 1Dr.P.Duraipandy , 2Dr.Towheed Sultana , 3Mr.Rajkumar D Bhure , 4Dr.J.KARTIGEYAN , 5Dr.G.NITHYA Journal of Pharmaceutical Negative Results Volume 14 Regular Issue 02 2023 • Importance of the Considering Bottleneck Intermediate Node During the Intrusion Detection In Manet, Research in Intelligent and Computing in Engineering Springer Pp 205-213, 2021 pp205-213 2021 • Design of Low Power High Performance 2-4 and 4 to 16 Mixed Logic Line Decoders, The International journal of analytical and experimental modal analysis, ISSN NO: 0886-9367, Volume XII, Issue XII, December/2020 Page No: 809 http://www.ijaema.com/VOLUME-XII-ISSUE-XII-DECEMBER-2020/

	<ul style="list-style-type: none"> Evaluation Of Performance Degradation Due To The Presence Of Bottleneck Intermediate Node In Communication Path In Manet International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8 Issue-4 1672 April 2019
Patents	<ul style="list-style-type: none"> Published Patent on " A Framework for Cooperative Spectrum sensing for optimal resource allocation towards green cognitive radio networks " with Application Number 202241007447 in Official Journal of Patent Office on 04.03.2022. Published Patent on "Intelligent Reader and Navigation System to assist blind people using Raspberry Pi” with application no. 202241068815A in Official Journal of Patent Office on 23.12.2022 Published Patent on " Food Quality Monitoring Using Wireless Passive Sensors" with Application Number 202241067610 A in Official Journal of Patent Office on 02/12/2022 Granted Patent on "A Robotics Based Muscular Spasm Relief Device " with Australian Patent Application Number : 2020102322 in Register of Patents on 14.10.2020. Automated IOT Based Smart Toilet for Kidney Diagnosis with Application No 202041026097 in PATDRFT Solutions published on 10th July 2020
Web of Science /Scopus ID	0000-0002-3172-391x
Google Scholar ID	<ul style="list-style-type: none"> https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=towheed+sultana&oq=
H-Index (As per SCOPUS Database)	<ul style="list-style-type: none"> 2
Professional Memberships	<ul style="list-style-type: none"> Elected as Associate Member on 16th Feb 2009 the Institute of Engineers India (IETE)
Details of Short-Term Training Programs/Faculty Development Programs/Seminars/ Workshops (Attended)	<ul style="list-style-type: none"> The whole and its parts:History of ideas about brain 90 Organized by IIT Madras, bodh bridge, Educational services pvt ltd 31st oct 2023 World Innovation & Technology Expo & Investment Summit 2023 Organized by Under the aegis of Pentagram Technologies, India & Anakosmos group, Ghana & UK & other partners from August 10-12 2023 AWS Summit India organized by AWS Web Services on May 25 2023 Innovation Ambasader training (IA) Foundation level Organized by MoEs Innovation cell & AICTE 15 sessions, 30 hours 2022-23

	<ul style="list-style-type: none"> • Innovation Ambassador training (IA) Advanced level Organized by MoEs Innovation cell & AICTE 15 sessions, 30 hours 2022-23 • Free simulators for ECE Lab practices (Module-2) Organized National institute of Technical training and research chandigarh, Ministry of education govt of india, Electronics and Communication Engineering Department from 26/09/2022 to 30/09/2022 (One Week) • Inculcating Universal Human Values in Technical Education” Organized by All India Council for Technical Education (AICTE) from 14th November to 18th November 2022. • AI Master Class organized by Pantech pro labs India pvt ltd from 20 Dec 2021 to 23 Jan 2022 • Master Class on ESD & IOT Class organized by Pantech pro labs India pvt ltd from Oct 13-Nov 18,2022 • Two Days National Level Workshop Master the Communication Processes conducted by Scrollwell from September 04th - 05th, 2021 • Skill Development and Rural Technology Innovation organized by Ministry of Human Resource Development, Government of India, Entrepreneurship Development and Industrial Coordination Department from 26/07/2021 to 30/07/2021 • ECE Virtual Lab Practices using Free Online Simulations organized by Ministry of Human Resource Development, Government of India, Entrepreneurship Development and Industrial Coordination Department from 14/06/2021 to 18/06/2021 • ECE Virtual Lab Practices using Free Online Simulations organized by Ministry of Human Resource Development, Government of India, Electronics and Communication Engineering Department, NITTTR, Chandigarh from 14/06/2021 to 18/06/2021 • Implementation of OBE and Online Teaching organized by National Institute of Technical Teachers Training and research Chennai from 10.05.2021 to 15.05.2021 online FDP on LI FI Technologies and Applications organized by Electronics and ICT Academy National Institute of Technology, warangal (TS) India from 13.04.2021 to 22.04.2021
Details of Short-Term Training Programs/Faculty Development Programs/Seminars/ Workshops (Organized)	<ul style="list-style-type: none"> • Organized Conferences, Workshops, FDPs, Technical Seminars, Webinars etc under IEEE Student Chapter, IETE Student Chapter and Dept club Clique