Profile Page

Name	:	Dr Deepti Kakkar
Designation	:	Associate Professor
Department	:	Electronics and Comm. Engg.
Qualification	:	PhD Spectrum Sensing in Multihop Networks for Cognitive Radios (Dr B R Ambedkar National Institute of Technology) M.Tech EPDT (PEC Chandigarh) B.Tech ECE (HPU)
Address	:	C/O ECE Department, NIT Jalandhar Jalandhar, Punjab - 144011
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Phone	:	+91-0181-2690301 (2610)

Research Interests :

Cognitive Radios, Signal Processing, Wireless Systems, Behavior Modelling, Neuro-developmental Disorders

Journal Publications :

Year	Journal	Publication
2022	Transactions on Emerging Telecommunication Technologies	Raghavendra Karanam, Deepti Kakkar, " Artificial neural network optimized ultra wide band fractal antenna for vehicular communication applications."
2022	Ad Hoc Networks Volume 136, 1	GurjotKaur, Deepti Kakkar, " Hybrid optimization enabled trust-based secure routing with deep learning-based attack detection in VANET."
2022	Journal of Electronic Materials volume 51, pages5655–5663 (2022)	Ashish Raman, Karnatakam Jaswanth Kumar, Deepti Kakkar, Ravi Ranjan & Naveen Kumar, " Performance Investigation of Source Delta-Doped Vertical Nanowire TFET"
2022	Transactions on Electrical and Electronic Materials (2022)	Ashish Raman, Soumya Prasanna Chattopadhyay, Ravi Ranjan, Naveen Kumar, Deepti Kakkar & Rajneesh Sharma, "Design and Investigation of Dual Dielectric Recessed-Gate AlGaN/GaN HEMT as Gas sensor Application"
2021	New Generation Computing (2021)	Nonita Sharma , Jaiditya Dev, Monika Mangla, Vaishali Mehta Wadhwa, Sachi Nandan Mohanty & Deepti Kakkar, "A Heterogeneous Ensemble Forecasting Model for Disease Prediction
2021	International Journal of Computer Applications in Technology	Monika, Nonita, Sourabh, Vaishali, Deepti, Prabhakar Kandukuri; INDIAN IMPACT- Multivariate Economic Analysis of the Government Policies and COVID’19 on Financial Sector
2021	Int. J. of Learning and Change	Tanu, Deepti Kakkar, Joy Karan Singh, Nonita Sharma and Rajneesh Rani, "Quantitative Analysis of Perception Ability in Autism Spectrum Disorder"
2021	Biomedical Signal Processing & Control	Social Cognition and Functional Brain Network in Autism Spectrum Disorder: Insights from EEG Graph-theoretic Measures Biomedical Signal Processing and Control

2021	International Journal of Image and Graphics	Rajneesh Rani, Renu Dhir, Deepti Kakkar and Nonita Sharma, "Script Identification for Printed and Handwritten Indian Documents: An Empirical Study of Different Feature Classifier Combinations"
2020	Neurological Research, 42(4), 327-339	Wadhera, T., & Kakkar, D. (2020). Multiplex temporal measures reflecting neural underpinnings of brain functional connectivity under cognitive load in Autism Spectrum Disorder.
2020	Journal of Mathematical Sociology.	Wadhera, T., Kakkar, D., Modeling Risk Perception Using Independent and Social Learning: Application to Individuals with Autism Spectrum Disorder.
2020	Neurological Research, 42 (8),1-10.	Wadhera, T., & Kakkar, D. Conditional entropy approach to analyze cognitive dynamics in autism spectrum disorder.
2020	International Journal of Medical Engineering and Informatics. 12(5), In Press.	Singh, A.K., Kakkar, D., Wadhera, T., Rani, R.,.Adaptive Neuro-fuzzy based Attention Deficit/Hyperactivity Disorder Diagnostic System.
2019	Neurophysiology 51, 281–292 (2019)	Tanu, Kakkar, Deepti Kakkar "Influence of Emotional Imagery on Risk Perception and Decision Making in Autism Spectrum Disorder"
2019	Journal of Electronic Materials, 48(12), 7635-7646	Wadhera, T., Kakkar, D., Wadhwa, G., & Raj, B." Recent Advances and Progress in Development of the Field Effect Transistor Biosensor: A Review.
2019	Applied Physics A volume 125, Article number: 787 (2019)	Raman Ashish ; Kakkar Deepti ; Bansal Manish ; Kumar Naveen "Design and performance analysis of GAA Schottky barrier-gate stack-dopingless nanowire FET for phosphine gas detection"
2019	International Journal of E-Health and Medical Communications. Volume 10, Issue 3.	Tanu, Deepti Kakkar, "Diagnostic Assessment Techniques and Non-Invasive Biomarkers for Autism Spectrum Disorder"
2019	International Journal of Science and Technology, Vol. 27 (4), pp. 1693-1708	Nimratveer Kaur Bahia , Rajneesh Rani *, Aman Kamboj and Deepti Kakkar " Hybrid Feature Extraction and Machine Learning Approach for Fruits and Vegetable Classification
2018	Advances in Autism Volume 4, No.3, pp.141-152.	Tanu, Deepti Kakkar, "Strengthening risk prediction using statistical learning in children with autism spectrum disorder"
2018	Journal of Nanoelectronics and Optoelectronics, 13(9):1295-1304	Ashish Raman, RajShekher Kutari, Sarabdeep Singh, Naveen Kumar and Deepti Kakkar, “Design and Analysis of pressure sensor based on MEMS cantilever structure and pocket doped GD-TFET”
2016.	Journal of Multimedia Technology & Recent Advancements, Vol.3, No.1, pp. 1-8.	Deepti Kakkar, Arun Khosla, Moin Uddin, “Spectrum Sensing over Rayleigh Fading in Multihop Cooperative Networks”
2016	Journal of Mobile Computing, Communications and Mobile Networks, Vol. 3, Issue 2, STM	Aradhana Tirkey, Deepti Kakkar, “Relay Node Selection Based reduced energy consumption in Heterogeneous Wireless Sensor Network.”
2016	Journal of Mobile Computing, Communications and Mobile Networks, Vol. 3, Issue 2, STM	Ekta Dogra, Deepti Kakkar, “Modified Binary Firefly Algorithm for Optimal Allocation of Spectrum on Cognitive Radio Systems.”
2014	International Journal of Engineering Scientific Research Publication, Vol. 6, pp. 71-77	Deepti Kakkar, Arun Khosla, Moin Uddin, “Efficient Performance Analysis of Spectrum Sensing for Cascaded Multihop Network over Nagakami-m Fading Channels.”
2014	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 3, No.10,	Abhishek Singh, Deepti Kakkar, “Throughput Optimization in Co-operative Communications using Evolutionary Algorithms.”
2014	International Journal of Advance Science and Technology, Vol. 62, pp. 19-30	Deepti Kakkar, Arun Khosla, Moin Uddin, “Sensing Performance Evaluation over Multihop Networks with Composite Fading Channel.”

2013	International Journal of Grid and Distributed Computing. Vol. 6, No.5, pp.61-70,	Deepti Kakkar, Arun Khosla, Moin Uddin, “Performance Evaluation of Energy Detection in Spectrum Sensing for Cascaded Multihop Networks over Nakagami-n Fading Channel.”

Conference Publications :

Year	Conference	Publication
September 2021	INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES: AI, IOT, AND CPS FOR SCIENCE & TECHNOLOGY APPLICATIONS (ICET 2021)	Manish Patel, Deepti Kakkar and Tejpal Singh, "Generic Approach for Structural Design Implementation and LV Automation of a Digital Block"
June 2021	International Conference on Recent Development on Materials, Reliability, Safety and Environmental" June 25-27, 2021	Manojkumar Kokare and Deepti Kakkar, "A Survey On Clustering Algorithms For Cluster-Head Selection in VANET"
June 2021	"International Conference on Recent Development on Materials, Reliability, Safety and Environmental " June 25-27, 2021	Harshit Srivastava and Deepti Kakkar " Vehicular Adhoc Network: A Review"
June 2021	International Conference on Recent Development on Materials, Reliability, Safety and Environmental" June 25-27, 2021	Anurag Chilwirwar, Ashish Raman Saxena, Arun Khosla and Deepti Kakkar, " Fault tolerance analysis of QCA based XOR gate"
Jan 2022	International Conference for Advancement in Technology (ICONAT)	Deepti Kakkar; Richa Singh; Jyothsna Sebastian and Kushagre " Wireless Propagation Models Optimization using Artificial Neural Network Algorithm"
Dec 2018	First International Conference on Secure Cyber Computing and Communications, 2018 , ICSCCC'2018	Saloni,Deepti Kakkar "TOPSIS Optimized Dual-Hop Routing Protocol for Homogeneous Wireless Sensor Networks with Grid-based Clustering"
Dec 2-4, 2019	2019 Thirteenth International Conference on Sensing Technology (ICST)	Gurjot kaur, Deepti Kakkar & Rohit Singh "A Novel Approach for Connectivity Improvement in Cluster Based VANETs"
2022	3r d Global Conference for Advancement in Technology (GCAT) during 7th & 9th October 2022.	Hritwik Todawat, Deepti Kakkar, Gurjot Kaur, "A Deep Learning based approach on Radar Interference Mitigation for Autonomous Vehicles"
2022	International Conference on Intelligent Technologies (CONIT)	Esha Agarwal and Deepti Kakkar, "Connectivity Improvement in Cluster-Based VANET"
2021	Sixth International Conference on Microelectronics, Electromagnetics and Telecommunications (ICMEET 2021), Volume 1	Tejendra Kumar Singh, Deepti Kakkar, Sukwinder Singh, "Design of Class AB and Class C Amplifiers"
2021	International Conference on Emerging Technologies: AI, IoT and CPS for science and Technology Applications	Joy Karan Singh, Deepti Kakkar, "source localization based healthcare Diagnostic system using ERP signals: An application to ASD
2021	Woman Researcher in Electronics and Computing 2021	Deepti Kakkar, Ashish Prashar, Mehar Latif, Aitraiyee Konar, Kishan Kumar and Amitabh Tripathi, " Hata Path Loss Model Optimization Using Particle Swarm Algorithm."
2021	Woman Researcher in Electronics and Computing 2021, 22-24 April, 2021	Raghavendra K and Deepti Kakkar, "A REVIEW ON FRACTAL GEOMETRY ENHANCED VEHICULAR COMMUNICATION UNDER 5G ENVIRONMENT

2021	Woman Researcher in Electronics and Computing 2021, 22-24 April, 2021	Deepti Kakkar, Amarah Zahra, Farhana Shahid, Hritwik Todawat, Vaishnawi Singh and Vidhya Sagar, "OUTDOOR RADIO PROPAGATION MODEL OPTIMIZATION USING GENETIC ALGORITHM."
2021	ICRIC2021	Raghavendra K and Deepti Kakkar, " IMPACT OF FRACTAL GEOMETRY ON MICROSTRIP PATCH ANTENNA AT FUTURISTIC FREQUENCIES."
2021	Woman Researcher in Electronics and Computing 2021, 22-24 April, 2021	Deepti Kakkar, Aditi Bharmaik, Ankita Sharma, Eshwari S. S. Dagar, Parul Rattanpal and Shefali Sharma, " Hata Model Path Loss Optimization using Least Mean Square Regression"
2020	3rd International Conference on Soft Computing: Theories and Applications.	Tanu, T., Kakkar, D. (2020). Drift-Diffusion Model Parameters Underlying Cognitive Mechanism and Perceptual Learning in Autism Spectrum Disorder.
2020	International Conference ICTESM, Kuala Lumpur, Malaysia. pp-37-43	Tanu, T., Kakkar, D. (2020).Analysis of Weighted Visibility Graphs in Evaluation of Austim Spectrum Disorder.
2020	3rd BMI International Autism Conference, Hyderabad, 2020.	Wadhera, T., Kakkar, D., Singh J. K., (2020). Design and Analysis of Field Effect Transistor-based Biosensor to assist Screening and Detection of Autism Spectrum Disorder. International Behavior.
2020	ICCIASH 2020	Suman Tandon, Deepti Kakkar, Parveen Kakkar, Ravneet Kaur "A Study of Consumer's Attitude towards Mobile Marketing"
2019	SPIN: International Conference on Signal Processing and Integrated Networks. Amity University, Uttar Pradesh , Noida 8th March, 2019.	Gurjot Kaur, Deepti Kakkar, "Fuzzy Based Integrated Diagnostic System for Neurodevelopmental Disorders"
2019	ICECA-2019: 3rd International Conference on Electronics and Communication and Aerospace Technology. Coimbatore	Tarun, Deepti Kakkar, Balwinder Raj, "Comparative Study of On-Drive-Current Improvement Techniques in Charge Plasma TFET"
2019	ICTESM-2019: 1st International Conference: with theme International Conference on Current Trends in Engineering, Sciences and Management. Malaysia. pp.37-43	Tanu , Deepti Kakkar, "Analysis of Weighted Visibility Graphs in Evaluation of Austim Spectrum Disorder and Epilepsy Relationship"
2019	IEMECON-2019: 9th Annual Information Technology, Electromechanical and Microelectronics Conference. Jaipur	Tanu , Deepti Kakkar, "Automatic Detection of Autism Spectrum Disorder by Tracing the Disorder Co-morbidities"
2019	7th International Conference on Advancements in Engineering And Technology (ICAET-2019) On 15th & 16th March,2019 at BGIET, Sangrur	Anoop Kumar Singh, Deepti Kakkar, Tanu, " Fuzzy Logic- A model to diagnose ADHD"
2019	National Conference, NIT Jalandhar	Soumya, Ashish Raman, Deepti Kakkar, "A Review of HEMT "
2018	SoCTA-2018: 3rd International Conference: with theme:Soft Computing: Theories and Applications. Scopus Indexed. NIT Jalandhar	Tanu, Deepti Kakkar, "Drift Diffusion Model Parameters Underlying Cognitive Mechanism and Perceptual Learning in Autism Spectrum Disorder"
2018	Second International Conference, ICAICR 2018, Shimla, India, July 14–15, 2018	prity kumari, Deepti kakkar and Neetu Sood, " Hybrid Min-Median-Max Filter for Removal of Impulse Noise from Color Images"
2018	Fifth International conference on signal processing and Integrated Networks. Amity University Uttar Pradesh, Noida, India, February 22-23	Tanu, Deepti Kakkar, "Accounting for order-frame length Tradeoff of Savitzky- Golay Smoothing filter"

2018	Confluence-2018:8th International Conference :on the theme “Cloud Computing, Data Science & Engineering Amity University Uttar Pradesh, Noida, India, Vol 8, pp.20, 11-12 Jan	Tanu , Deepti Kakkar, " A Study of Machine Learning Based Generalized Automated Seizure Detection System
2018	Fifth International conference on signal processing and Integrated Networks. Amity University Uttar Pradesh, Noida, India, February 22-23	Vasudha , Deepti Kakkar, " Facial Expression Recognition with LDPP & LTP using Deep Belief Networks
2013	Mobile and Embedded Technology International Conference (MECON), pp. 24-31	Deepti Kakkar, Arun Khosla, Moin Uddin, “Performance Evaluation of Spectrum sensing in cognitive radios for different channel conditions.”
2012	International Conference on Information Management in the Knowledge Economy (IMKE2012). Chitkara University Chandigarh-Patiala National Highway (NH64) Rajpura 140401, Punjab, India	Mayank, Deepti Kakkar, “Spectrum Sensing Performance of Cognitive Radios Under Different Fading Environments.”
2012	International Conference on Recent advances in engineering and technology, Hyderabad, India	Ashish, Deepti Kakkar, “OFDM signal detection in cognitive radio systems”
2011	International Conference of Wireless Networks, London (U K), pp 1-6	Deepti Kakkar, Arun Khosla, Moin Uddin, “Power Allocation with Random Removal Scheme in Cognitive Radio System
2011	International Conference on Advanced Computing and Communication Technologies, Rohtak (Haryana), pp. 161-165	Anuj kumar Sharma,Deepti Kakkar, Vipul Sharma, "Phase Noise Compensation in OFDM Based Communication System "
		Manish Patel, Deepti Kakkar and Tejpal Singh, Generic Approach for Structural Design Implementation and LV Automation of a Digital Block

Book/Chapter Publications :

Type	**Title**	**Publisher**	**Authors**	**ISBN/ISSN No.**	**Year**
Book chapter	Risk mitigation in children with autism spectrum disorder using brain source localization	John Wiley & Sons	Joy Karan Singh, Deepti Kakkar, Tanu Wadhera	ISBN: 9781119792321	July 2021
Book chapter	Behavioral Modeling using Deep Neural Network Framework for ASD Diagnosis and Prognosis	John Wiley & Sons	Tanu Wadhera, Deepti Kakkar, Rajneesh Rani	9781119792321	July 2021
Edited Book	Enabling Technology for Neurodevelopmental Disorders	Taylor and Fransis, CRC Press	Tanu Wadhera, Deepti Kakkar	ISBN 9780367761189	2022
Book chapter	Human-Machine Interface-Based Robotic Wheel Chair Control	IGI GLOBAL, USA	Deepti Kakkar, Ashish Raman	DOI: 10.4018/978-1-7998-7433-1.ch001	2022
Book chapter	Trust-Based Security Model for Adaptive Decision Making in VANETs	Taylor and Fransis, CRC Press	Gurjot Kaur, Deepti Kakkar	9781003189633	2022
Book chapter	Security Attacks and Challenges of VANETs	Taylor and Fransis, CRC Press	Manojkumar B. Kokare, Deepti Kakkar	9781003189633	2022

Book chapter	GaN Technology analysis as a Greater Mobile Semiconductor: An Overview	John Wiley & Sons			2021
Book chapter	Multilevel Distributed Energy Efficient Clustering Protocol for Relay Node Selection in Three-Tiered Architecture	John Wiley & Sons	Deepti Kakkar, Gurjot Kaur,		2021
Authored Book	Optimized Spectrum Allocation in Cognitive Radio Systems	Lambert	Deepti Kakkar, Tarun Chaudhary and Ekta Dogra	978-620-3-30556-2	2020
Book Chapter	Performance Analysis of Multi-Hop Routing Protocol With Optimized Grid-Based Clustering for Wireless Sensor Network	IGI Global, USA	Saloni Dhiman , Deepti Kakkar and Gurjot Kaur	ISBN13: 9781799816263|ISBN10: 1799816265|EISBN13: 9781799816287|DOI: 10.4018/978-1-7998-1626-3	2020
Book Chapter	Effect of Channel Modeling on Intercept Behavior of a Wireless BAN With Optimal Sensor Scheduling.	IGI Global, USA	Deepti Kakkar , Gurjot Kaur , Parveen Kakkar and Urvashi Sangwan	ISBN13: 9781799803737|ISBN10: 1799803732|EISBN13: 9781799803751|DOI: 10.4018/978-1-7998-0373-7	2020
Edited Book	Interdisciplinary approaches to altering Neurodevelopmental disorders.	IGI Global. 2020. (Published)	Wadhera, T. and Kakkar, D.		2020
Book chapter	Big Data-Based System: A Supportive Tool in Autism Spectrum Disorder Analysis. In Interdisciplinary Approaches to Altering Neurodevelopmental Disorders (pp. 303-319).	IGI Global.	Wadhera, T., & Kakkar, D. (2020).		2020
Authored Book	Ensemble Modelling for Disease Forecasting	Lambert	Nonita Sharma, Deepti Kakkar, Nashreen Sultana	ISBN:978-620-2-67139-2	2020
Book Chapter	Eye Tracker: An Assistive Tool in Diagnosis of Autism Spectrum Disorder	IGI Global, USA	Tanu, Deepti Kakkar	ISBN13: 9781522570042 ISBN10: 1522570047 EISBN13: 9781522570059	2019

Book Chapter	Pre-Clinical ASD Identification Using Multi-Biometrics Based Systems (Submitted)	IGI, USA	Tanu , Deepti Kakkar, Gurjot Kaur and Vasudha	ISSN: 2327-9354| EISSN: 2327-9370| ISBN13: 9781522575252|ISBN 10: 1522575251|EISBN13 : 9781522575269	2019
Book chapter	Pre-Clinical ASD Screening Using Multi-Biometrics-Based Systems. In Design and Implementation of Healthcare Biometric Systems (pp. 185-211).	IGI Global.	3. Wadhera, T., Kakkar, D., Kaur, G., & Menia, V.		2019
Book Chapter	Distance based Enhanced Threshold Sensitive Stable -Election Routing Protocol for -Heterogeneous Wireless Sensor Networks (In- Press)	Springer	Richa Rani, Deepti Kakkar, Parveen Kakkar, Ashish Raman	https://link.springer.com/chapter/10.1007/978-3-662-57277-1_5	2018
Book Chapter	“Energy Detection Based Spectrum Sensing Analysis of Cooperative Cognitive Radios under Different Fading Environments	IGI Global, USA	Deepti Kakkar, Arun Khosla, Moin Uddin and Mayank		2013

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
CO-PI	Research Project	FPGA based High Speed CCSDS Processor for Baseband Receiver	ISRO	2020	2022	15.90 Lacs	On-Going	Dr Ashish Raman, Dr Mamta Khosla

Events Organized :

Category	Type	Title	Venue	From	To	Designation
STC, TEQIP-II	National	Recent Trends in VLSI AND Communicaiton Systems	ECE, NIT Jalandhar	17-06-2013	21-06-2013	Coordinator
TEQIP Sponsored STC	National	Research Trends in Wireless Communication Systems	NIT, Jalandhar	25-05-2019	29-05-2019	Co-ordinator

TEQIP Sponsored STC	National	Advances in Communication systems for Integrated Technology " 06-10 July 2020	Dr B R Ambedkar National Institute of Technology	06-07-2020	10-07-2020	Co-ordinator
Self Financed STC titled	National	Research trends in Communication and Signal Processing	ECE Department, NIT Jalandhar	21-12-2020	25-12-2020	Co-ordinator
Self Financed STC	National	Advances in Communication and signal processing	Dr B R Ambedkar, NIT Jalandhar	05-04-2021	09-04-2021	Course Coordinator
International Conference	International	Women Researchers in Electronics and Computing, 22-24 April , 2021	Dr B R Ambedkar National Institute of Technology, Jalandhar	22-04-21	24-04-21	Program General Chair

Professional Affiliations :

Designation	Organization
Member : Membership Number (M-1595398)	IEI
Member: Membership Number (114901)	IAENG
Member	IEEE

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Mr K Ragvendra	5G Communication	pursuing	2021	
Mr Joy Karan Singh	Brain Source Localization	pursuing	2019	
Ms. Gurjot	VaNets (Broad Area)	In Progress	2018	N.A
Ms. Tanu	Behavioral and Signal Processing Techniques to understand Neuro developmental Disorders.	Completed	2016-2021	N.A

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Manojkumar Balaji Kokare 19204010/ 1/ Thesis	Clustering Algorithm for Selection of CH in VANETs	pursuing	2021	
Manish Patel/ 19204109	Structural Design and Automation in Intel Technology Node.		2021	Dr Tejender (Intel)
Karnatakam Jaswanth Kumar/ 19204106	Investigating the performance of Vertical nanowire TFET with source delta doping.	Completed	2021	Dr Ashish Raman
Chandan Kumar /19204104/ 1 Thesis	AlGaN/GaN, InAlN/GaN and AlGaAs/GaAs based HEMTs for power applications using Silvaco TCAD	Completed	2021	Dr Nitesh Kumar
Anurag Chilwirwar	Fault tolerance design and analysis of QCA based XOR gate	Completed	2021	Dr Arun Khosla

Madhu Versha/ 19204008/1/Thesis	Implementation and optimization of syndrome calculator for Reed Solomon decoder	Completed	2021	Dr Ashish Raman
Tajendra Kumar Singh/ 19204023/1/ Thesis	Design of Class AB and Class C Amplifier	Completed	2021	Dr Sukhwinder Singh
Anoop Kumar Singh (17204004)	“ADHD diagnosis using Adaptive Neuro- Fuzzy inference system”	Completed	2021	solo
Davinder Singh	Optimal number of Clusters in VaNet using jaya algortihm	Completed	2020	
Manoj Kumar	“13.75-14.5 GHz GaN HEMT based Class AB RF Power Amplifier for Satellite Uplink”	Completed	2020	Dr Sukhwinder Singh
Nibha Kumari	DESIGN & ANALYSIS OF DUAL METAL GATE & HETERODIELECTRIC DOPINGLESS NWFET	Completed	2020	Dr Ashish Raman
Anoop Kumar Singh (17204004)	“ADHD diagnosis using Adaptive Neuro- Fuzzy inference system”	Completed	2019	solo
Tarun Kumar Bhardwaj (17204018)	“Design and Performance Evaluation of Doping less TFET for Biosensor application”	Completed	2019	Dr Balwinder
Soumya Prasanna Chattopadhyay (17204020)	“Design and Investigation of Gallium Nitride based High Electron Mobility Transistors with Recessed-Gate structure employing Dual Gate Insulator for Carbon Monoxide (CO) Sensing Application”	Completed	2019	Dr Ashish Raman
Ms. Saloni (16204021) (	TOPSIS Optimized Grid Based Clustering for Wireless Sensor Network	Completed in June 2018)	2018	solo
Ms. Prity Kumari (16204017)	Sorted –Min-Max Mean Filter for Removal of Impulse Noise from Images	(Completed in June 2018)	2018	Dr Neetu Sood
Ms. Vasudha (16204024)	Facial Expression Recognition of Neurodevelopmental Disordered Subjects with Hybrid LDPP and LTP using DBN.	Completed	2018	solo
Mr. Manish Bansal	Performance Analysis of Different Catalytic Metals in Gate All Around Schottky Barrier Nanowire MOSFET for Phosphine Gas Detection	Completed	2018	Dr Ashish Raman

Admin. Responsiblities :

Position Held	**Organization**	**From**	**To**
Member of Departmental BOS	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (At Departmental Level)	2007	Till Date
Society OF Electronics and Communication Engineers	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (At Departmental Level)	2012	2013
Time Table Coordinator	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (At Departmental Level)	2011	2012
Girls Counselor (At Department Level)	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (At Departmental Level)	2016	Till Date

Departmental Library Incharge	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (At Departmental Level)	2012	2013
Major Project Coordinator (At Department Level)	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (At Departmental Level)	2016	Till Date
Lab In-Charge (Communication System Lab)	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (At Departmental Level)	2015	till Date
Co-Faculty Adviser TechNiti 2013	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (At Institute Level)	2013	2013
UG/ PG Seat Matrix Faculty representative for Handicap Cell	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (At Institute Level)	2015	Till Date
Warden MGH	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (At Institute Level)	2012	2012
Member for Establishment of Disability Center	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (At Institute Level)	Feb 22, 2018	Till Date
Member of Anti ragging squad / Physical verification team	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (At Institute Level)	2007	Till Date
Liaison Officer (PWD)	Dr B R Ambedkar NIT Jal	02-03-2021	Till Date

Award and Honours :

Title	**Activity**	**Given by**	**Year**
Expert Talk	Research Trends in 5G Communications	during Online STC on Research Trends Communication and Signal Processing	Dec, 2020
Expert Talk	Advances in Sensor Network	During Online Webinar in Lyallpur Khalsa College Technical Campus	18.09.2020