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ENGINEERING & TECHNOLOGY**



SAMPRESHAN

THE NEWSLETTER

Volume 1 • Issue 4 • Oct-Dec 2022



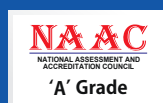
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



39th Rank in Pharmacy
145th Rank in Engineering



CSE|ECE|ME|BT
IT|B.PHARM|MBA|MCA



ACCREDITED AS
"GRADE A" 3.23



AWARDED WITH
"DIAMOND" BY QS I GAUGE
(Engineering & Pharmacy)

Message from NIET Management



Dr. O P Agarwal

Managing Director



Dr. Neema Agarwal

Additional Managing Director



Mr. Raman Batra

Executive Vice President

Education is not complete if it does not help the individual to stand for oneself and take upon the challenges that one faces at several stages in one's career and life. When we impart education, we empower the individuals to pursue their goals, to realize their dreams, to make the right choices in life and to become a skilled professional in building the future of India. An ideal education should make an individual to respect diverse cultures, human values and professional ethics. The Department of Electronics and Communication Engineering (ECE) of Noida Institute of Engineering and Technology (NIET), Greater Noida exhibit the same spirit. We would like to congratulate the Department of ECE for presenting the Volume-1, Issue-4 of the newsletter "SAMPRESHAN".

In the current world scenario of ever-changing technologies, fast-evolving research innovations and growing economic challenges, an extreme competition is the order of the day. Creating and maintaining an inspiring atmosphere assumes tremendous importance in moulding the young minds to realize their strengths, work upon their inadequacies and build their capabilities. Reminding of Gurudev Rabindranath Tagore's words, "The higher education is that which does not merely give us information, but makes life in harmony with all existence."

Wishing you all success in your endeavors Keep learning and keep growing



Message from Director

Dr. Vinod Mansiram Kapse

Noida Institute of Engineering and Technology understands the pulse of students education demands and stays true to its objective of being a good quality higher education provider. I believe the pages of SAMPRESHAN will present to the readers a list of activities: conferences, workshops, training programs, expert lectures and the industry interactions offered to the students, enriching their learning canvas. Moreover, SAMPRESHAN intends to provide a bird's-eye view of what a student can expect during the graduation years with us at NIET.

My heartiest Congratulation to all SAMPRESHAN Team for successful releasing of Volume-1, Issues-4 of 2k22 and Best wishes for SAMPRESHAN Volume-2 for the 2k23.

I am happy to note that the Department of Electronics and Communication Engineering is releasing its last Newsletter for the year 2k22. An enumerating of the various activities and achievements of our faculties and students makes this newsletter successful. The department endeavors to produce confident professionals tuned to a real-time working environment. The department offers an excellent academic environment with a team of highly qualified faculty members to inspire the students to develop their technical skills and inculcate the spirit of teamwork in them.

My warm wishes to SAMPRESHAN editorial team to their efforts for successful completion of 2022, Volume-1, Issues-4 Newsletter and the Best Wishes for the year 2023.



Message from HoD

Dr. Pavan Kumar Shukla

Institute's Achievements QS-I Gauge Subject Rating- DIAMOND

Noida Institute Of Engineering and Technology, Greater Noida received a 'Certificate of Recognition' for participating in the India Pavilion at the QS Higher Ed Summit Asia Pacific by Mr. Ben Sowter, Senior Vice President, Qs Quacquarelli Symonds. Mr. Raman Batra, Executive Vice President received "Certificate of Recognition" on 10th November 2022

Dr. Neema Agarwal, Additional Managing Director of NIET, Greater Noida received QS I-GAUGE SUBJECT RATING DIAMOND Certification for NIET Pharmacy Institute on 24th November 2022 in Bangalore with Dr. Ashwin Fernandes, Regional Director, QS I-GAUGE and Mr. Ravin Nair, Chief Operating Officer, QS I-GAUGE. Dr. Neema Agarwal also attended the QS I-GAUGE India Academic Forum, Bangalore as a SPEAKER in the Roundtable (dedicated to HEIs) on 'Key takeaways of transformative pedagogy discussed in NEP'.

**A moment of great pleasure
pride and happiness**



NIET ECE Students & Faculty visit to Pragati Maidan, New Delhi for the Launching Ceremony of 5G by Prime Minister

Prime Minister Narendra Modi launched the 5G services at a function at Pragati Maidan in New Delhi on 1st October. 5G technology will provide seamless coverage, high data rate, low latency, and highly reliable communication.

It will also increase energy efficiency, spectrum efficiency and network efficiency. Speaking on the occasion, Mr Modi said that the launch of 5G services is a gift from the telecom industry to 130 crore Indians and a step towards a new era and the beginning of infinite opportunities in India.

To especially aware and encourage the students about 5G, Department of Electronics and Communication Engineering participated in the launching ceremony of 5G in India by PM Modi at Pragati Maidan, Delhi on 2nd October 2022.



We Care Club activity under ECE Department 17th October 2022

"Learning is the only thing the mind never exhausts, never fears, and never regrets." To help the poor kids in their education is the beauty and strength of We Care Club." So let us wage a global struggle against illiteracy and poverty. Let us distribute the books and pens to our needy and keen to learn kids. First event of 'WE CARE' club. ECE, NIET organized an event based on a theme, 'A day for them'. They also celebrated the birthday of Ms. Richa Baranwal (AP, ECE), Shashank Singh(ECE, 3rd Year student) and Chirantan Dev(ECE, 2nd Year students) in the presence of HoD, ECE & the faculty coordinators. They distributed the stationary gifts to the students of Rainbow School and shared the happiness with them.

Thanks to all the student coordinators & everyone associated with the club!



"Faculty Facilitation on Founders Day"

22nd October 2022

An awards ceremony makes people feel that their work is valued. It shows approval and gratitude for each person's good job, and it makes people aware that good work will be rewarded. It shows others, such as the general public and other staff members, that you're aware of outstanding accomplishments. [Recognition motivates others](#) to strive for excellence and we all benefit from it.



NIET, Department of ECE congratulates Dr. Pavan Kumar Shukla, HoD ECE for the award of Most promising of the year 2022 (NewlyJoined).



Dr. Garima Shukla for the award of Special recognition for invaluable contribution towards project and Govt. funding.



Mr. Anshu for the award of Star performer of the year 2022 (Academic).



Mrs. Kanika Jindal for the award of Special recognition for the support towards Dean Student Welfare.



Academic success depends on research and publications. Being a researcher requires dedication, hard work and more than a little inspiration.

Research is the process of collecting data, saving critical information, then analysing and interpreting the data.



Dr. Pavan Kumar Shukla, Dr. Vijay Kumar Pandey, Dr. Laxman Singh, Dr. Niraj Agrawal, Dr. Anand Kumar Singh for their consistency, dedication and patience for doing research and publication.

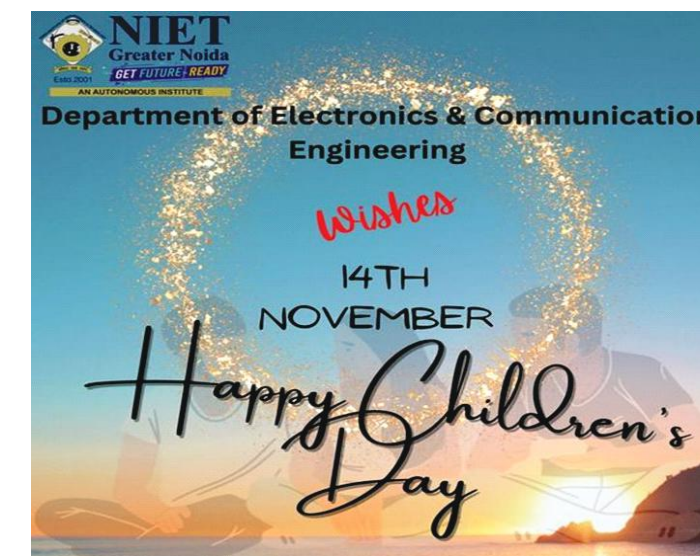
"Children's Day Celebration"

14th November 2022

Children's Day is celebrated each year on the birth anniversary of India's first Prime Minister Jawaharlal Nehru, i.e. 14 November.

Chacha Nehru was a strong advocate for children's education and always believed that a newly independent country could only flourish alongside the prosperity of its children. He believed that children were the real strength of a nation and the foundation of its society. According to Chacha Nehru, "The children of today will make the India of tomorrow. The way we bring them up will determine the future of the country."

The former Prime Minister Pandit Jawaharlal Nehru had a clear vision of what Modern India should look like and realized to set his dreams by developing strong pillars which would support the newly independent nation sometime



First Year Orientation Program 15th November 2022

We are delighted to welcome you to NIET Department of Electronics & Communication Engineering, where your energy and excitement enrich our vibrant campus life. Whether you are beginning or continuing your educational journey with us, we look forward to learning, exploring, and growing together.

"Education is not to reform students or amuse them or to make them expert technicians. It is to unsettle their minds, widen their horizons, inflame their intellects, and teach them to think straight, if possible" Department of Electronics & Communication welcomed the first year ECE students for coming to this peak as NIETian



Orientation Programme of first year students and Inauguration of school of Future Skills & Idea Lab.

The objective of orientation is to familiarize new students with organization's history, inform them about relevant course curriculum, syllabus, Institute rules and regulations and Institute policies etc. Through orientation program students will get to know how they will adopt cultures of campus and articulating the advantages and challenges in their graduation program.

Noida Institute of Engineering and Technology organized Orientation Programme for first year students and Inaugurated school of Future Skills & Idea Lab on 22nd November 2022. Prof. M.P. Poonia ; Vice Chairman AICTE, Prof. Rajive Kumar; Member Secretary AICTE, Mr. Arun Jain; Chairman And Managing Director of Intellect Design Arena Ltd. were the chief guests who motivated the students for their bright future ahead.



Capgemini Orientation Programme in 5G Wireless Technology 23rd November 2022

Department of Electronics and Communication Engineering had organized the "Capgemini Orientation Programme in 5G Wireless Technology" for ECE Students on 23rd November 2022. Mr. Pavan Kumar Shukla, HoD ECE welcomed Capgemini representative and gave special thanks to Mr. Praveen Goel (Senior Director, SFS Group, Capgemini Engineering), Mr. Pankaj Negi (Director, SFS group, Capgemini Engineering), and Mr. Vikram Malik (Technical Manager, SFS group, Capgemini Engineering) for this interaction. The Q&A session proved to be a wonderful interaction for the students. Students got benefit with the expertise, knowledge and got aware of the requirement of Capgemini for Internship.



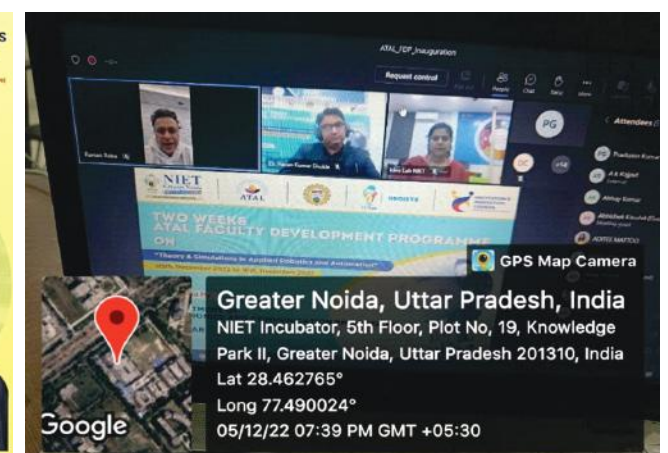
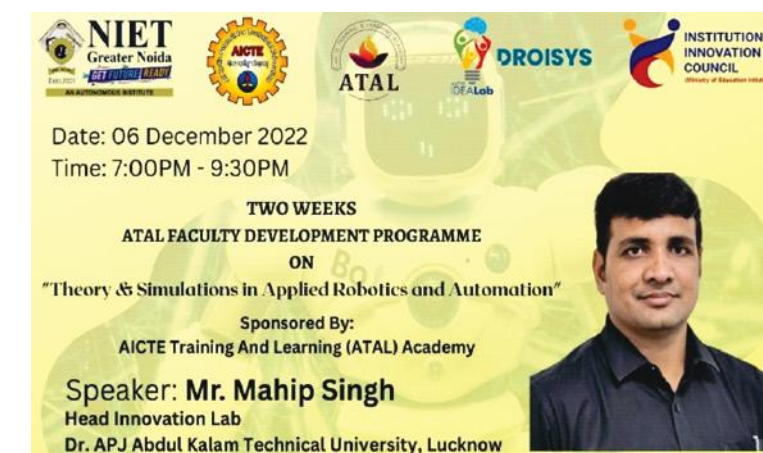
Atal Faculty Development Program, Sponsored by AICTE, New Delhi 05th-16th December 2022

Department of Electronics and Communication Engineering organized two weeks Faculty Development Program on title "Theory and Simulations in Applied Robotics and Automation" Sponsored by All India Council for Technical Education (AICTE), New Delhi. FDP was in Hybrid mode.

First week was in online mode from 05th of December to 10th of December.

The FDP was inaugurated online on 05th of December. The chief guest was Dr. Pratosh Bansal, Professor, in Department of Information Technology, Devi Ahilya University (DAVV), Indore.

- On first day, 05th December, Mr. Prakash Ambhwani, Engineering Head-Smart Machines research & innovation, TCS talked about Introduction to robotics and automation.
- On second day, 06th December, Mr. Mahip Singh, Heading Innovation Hub, AKTU, acknowledged us about projects in Robotics
- On third day, 07th December, Mr. Sachin Sharma, Incubation Manager, UPIDES, Noida, gave hands on session on Arduino based robotic applications.
- On fourth day, 08th December, Dr. Naveen Mani Tripathi, Assistant Professor, RGPIT Amethi (Assam Centre), elaborated New Education policy (NEP)2020, and gave expert talk on stress management.
- On fifth day, 09th December, Dr. Ekta Singla, Associate Professor, Department of Mechanical Engineering at IIT Ropar, discussed Robotic Manipulators and Kinematic modelling for redundant robots.
- On sixth day, 10th December, Mr. Vikash Kumar, DGM Robotics & Automation at NETTUR Technical Training Foundation (NTTF) Bangalore, discussed about How to set home position, Study of commands available in KUKA SIM Pro3, How to move a Robot and prepare a Programs.



Capgemini Orientation Programme in 5G Wireless Technology 23rd November 2022

- On first day, 12th December, Dr. Priyanka Chandani (HOD CSBS, DS, AI, SFS) and Dr. Manish Kaushik (Dean Students' Welfare), took session on Design Thinking.
- On second day, 13th December, Mr. Kirat Singh and Team from Next Up Robotics demonstrated Hands on simulations on Robotics software, ROS.
- On third day, 14th December, Mr. Mayank Deep Khare (HOD, IOT), gave hands-on on arduino based IOT projects.
- On fourth day, 15th December, Mr. Manish Kumar (AP, ECE) took session on Pnuematics and Electro-Pnuematics Automation and Ms. Nisha Chauhan (AP, ECE) took hands on session on KUKA robot in the institute.
- On fifth day, 16th December, Mr. Anirudhha from TCS has demonstrated various applications of robotics.

HoD Message: Dear all the coordinators, Really it was amazing to work with you all during this ATAL FDP. I really appreciate all the efforts made by everyone to make this event a great success. Thank you everyone once again!!



Institute International Collaboration 16th November 2022

It's a proud moment for NIET on official collaboration with CTIF Global Capsule (CGC), Aarhus University, Herning, Denmark for academic excellence and outreach initiatives.

The MoU has been signed on 16th November 2022 under the presence of His Excellency Freddy Svane, Ambassador at the Royal Danish Embassy and Professor Ramji Prasad Founder President, CTIF Global Capsule (CGC), Founder Chairman Global ICT Standardization Forum for India, Professor at Department of Business Development and Technology Aarhus University, Herning, Denmark and Mr. Raman Batra, Executive Vice President NIET

We, the Department of Electronics & Communication Engineering, are honoured to have Professor Ramji Prasad, such a great personality in the field of research specially in telecommunications. His contribution in the field of 5th Generation wireless technology is commendable to the whole world.



Institute International Collaboration

16th December 2022

Department of Electronics and Communication Engg. and IDEA Lab of NIET welcomes our esteemed guest Mr. Abhishek Shrivastava, MD & CEO of Telenoetica, Lagos Nigeria and Mrs. Shweta Shrivastava, Executive Director-Operations for the Valedictory session of 15 days ATAL FDP on Robotics and Automation at NIET.



International Delegate Visit

24th December 2022

Mr. Lalit Garg, Professor, University of Malta Visited Electronics and Communication Engineering Department on 24th December. The agenda of discussion is to Colaboration of University of Malta with NIET for Student and Faculty excahnge program, International Research funding, Internation Innovation and Entrepreneurship schemes for students, Study in Malta etc

Mr. Lalit Garg is a Faculty in Computer Information Systems at the University of Malta, Malta, and an honorary lecturer at the University of Liverpool, UK. He has been a researcher at the Nanyang Technological University, Singapore, and Ulster University, UK. He has supervised 200+ Masters' dissertations, 2 DBA and 2 PhD thesis and published 150+ high impact publications in refereed journals/conferences/books, five edited books and 22 patents. He has delivered several keynote speeches, organized/chaired international conferences, and consulted numerous public and private organizations for information systems implementation and management. His research interests are business intelligence, machine learning, data science, deep learning, cloud computing, mobile computing, Internet of Things (IoT), information systems, management science and their applications mainly in healthcare and medical domains. He participates in many EU, and local funded projects, including a one million euros Erasmus+ Capacity-Building project in Higher Education (CBHE) titled Training for Medical education via innovative eTechnology (MediTec), and Malta Council of science and technology's Space Research Funds. The University of Malta has awarded him the 2021-22 Research Excellence Award for exploring Novel Intelligent Computing Methods for healthcare requirements forecasting, allocation and management (NICE-Healthcare).



Institute National Collaboration with NASSCOM

29th November 2022



Institute National Collaboration with RFRF

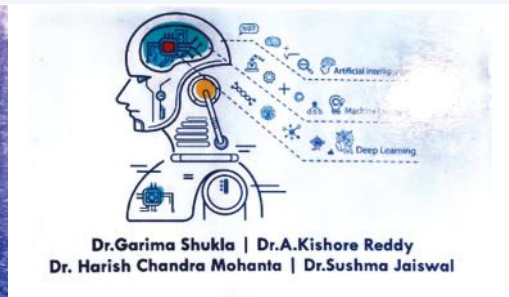
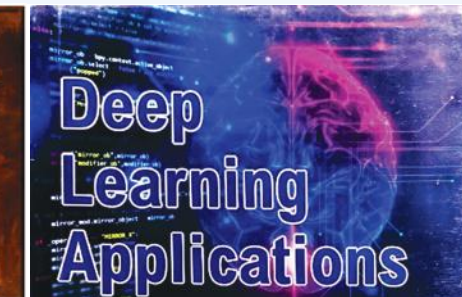
2nd December 2022

At the outset, let us introduce Research For Resurgence Foundation (RFRF), Nagpur which has grown as a one of the largest network of Academic Institutions with 235+ Universities and Institutes including IITs, NITs, IIMs, AICTE etc. in past six years, by entering into formal MoU for conducting joint research activities. RFRF is established by Bharatiya Shikshan Mandal which itself is working in the field of education since 1969. Major research activities RFRF is involved with associates is focused on the areas of National importance and particularly providing solutions to Bharat specific issues. The activities are to support research students, supervisors and scientists in terms of orientation of research purpose and methodologies. Mission mode projects are being built including multi-institutions by sharing facilities and expertise for mutual strength.



Faculty Achievements

- a. Dr. Pavan Kumar Shukla, HoD-ECE, Session Chair on 8th International Conference on Signal Processing and Communication (ICSC) at Jaypee Institute of Information Technology, Noida.
- b. Dr. Garima Shukla, Associate Professor, published a Book entitled "Deep Learning applications".



Congratulation for Ph.D Guidance

Dr. Ghanshyam Singh has completed his Ph.D. Degree on Topic "Design and Analysis of Microstrip Antenna using Metamaterials" in Electronics & Communication Engineering from Dr. Abdul Kalam Technical University (AKTU), Lucknow under the supervision of Dr. V. K. Pandey, Professor Department of Electronics and Communication Engineering.



ECE Social Media Team



Mr. Himanshu Yadav**Mrs. Neha****Mrs. Sarabjeet Kaur****Mr. Manish Kumar****Mr. Devendra Pratap Singh**

Department of Electronics & Communication Engineering

Farewell of ECE Faculties

Research Publication & Patents

Sl. No.	Patent Application No.	Inventor Name	Title Of The Patent
1		Dr. Pavan Kumar Shukla	A Wideband Metamaterial Linear To Linear Conversion For X Band Applications
			Analysis of Graphene Based DRA
2		Dr. Laxman Singh	A Systematic Review on the Detection and Classification of Plant Diseases Using Machine Learning
			Prediction of review helpfulness based on feature engineering driven deep learning model
			Comparative Analysis of Machine Learning based Wormhole Attack Detection Techniques in Ad-hoc Network, International Conference on Communication, Security and Artificial Intelligence
			Multimodel cyber security based object detection by classification using deep learning and background suppression technique
			Attack Detection in Software Defined Network using RNN, Lecture Notes in Networks and Systems
			Laxman Singh et al., Cloud computing and its applications to e-learning, Integration of cloud computing
3		Dr. Garima Shukla	A Survey: Improvement of QoS Via Load Balancing Approach in Parallel Distributed System
			Understanding the Mechanism of Some Important Heterostructure for Optoelectronic Application
			Automated Detection of Lung Cancer using Transfer Learning based Deep Learning
4		Dr. Niraj Agrawal	Design and analysis of broadband circularly polarized compact planar antennas for 2.45 GHz RFID handheld reader applications," International Journal of Microwave and Wireless Technologies
	Enabling highly-efficient OLED with solution processed nanocrystal line copper phthalocyanine hole-injection/transport layer," Semiconductor Science and Technology		
5		Mr. Dheeraj Tripathi	Impact of Parasitic Component on Bandwidth of Printed Dipole Antenna
6		Ms. Nisha	Design and Implementation of IoT-Based Advanced Smart Agriculture Monitoring

Farewell of ECE Faculties

Research Publication & Patents



Dr. Shilpee Patil
Message from Deputy HoD

Dr. Shilpee Patil worked as an Assistant Professor in the Department of Electronics and Communication Engineering at Noida Institute of Engineering and Technology, Greater Noida. She has done her Phd.from AKTU, Lucknow. She was the Deputy Hod of the department. She is member of technical society too. She has published many research papers.



Dr. Anand Kumar Singh
Assistant professor

Dr. Anand Kumar Singh is working as an Assistant Professor in the Department of ECE. He has done his Ph.D. in Electronics Engineering from Dr APJ Abdul Kalam Technical University, Lucknow in 2021, and he has received Research cum teaching fellowship from TEQIP-II & III project of MHRD, New Delhi during his research program. He has published many research papers in peer reviewed SCI and Scopus indexed journals. He was awarded as best research paper in Indo-Korea virtual conference jointly organized by Jeonbuk National University, Jeonju, Korea and Vellore Institute of Technology, Vellore, India in July 2020. His research interests include two-dimensional materials based electronics and optoelectronics, graphene, heterostructure semiconductor devices and low power VLSI design. He is member of scientific societies like ISTE, IET and IAAM. Currently, he is the member of Research and Development (R& D) cell at NIET college

Dr. Pavan Kumar Shukla (HoD, ECE) along with all the faculty & staff members congratulates him for their bright future ahead.



Prof. Saurabh Katiyar
Assistant Professor

Mr. Saurabh Katiyar worked as an Assistant Professor in the Department of Electronics and Communication Engineering at Noida Institute of Engineering and Technology, Greater Noida. He has done his M.tech in ECE from Bundelkhand Institute of Engineering and Technology, Jhansi. He was the Associate Dean of DSW . He has published many research papers.



Ms. Kanika Taneja
Assistant Professor

Ms. Kanika is working as an Assistant Professor in the Department of Electronics and Communication Engineering at Noida Institute of Engineering and Technology, Greater Noida. She has done her M.tech in ECE from DCRUST, Murthal. She is the Dance coordinator of NIET's DSW team from the last 4 years and she is the Coordinator of the NEWSLETTER SAMPRESHAN. She has published many research papers.



Ms. Akansha
Assistant Professor

Ms. Akanksha worked as an Assistant Professor in the Department of Electronics and Communication Engineering at Noida Institute of Engineering and Technology, Greater Noida. She has done her M.tech and Btech. in ECE from Bhagat Phool Singh Mahila Vishwavidyalaya, also known as Bhagat Phool Singh Women's University. She was the Coordinator of the NEWSLETTER SAMPRESHAN. She has published many research papers.

