



Nagarjuna College of Engineering and Technology

An Autonomous College under VTU

Vision



Mission



Department of Electronics and Communication Engineering

Presents

Taranga - 2018

Newsletter - Edition 4

August 2018



NCET ECE Family

Professors



Dr. Nagesh K N
Professor and HOD



Prof. Dr. H Venkatesh
Kumar



Prof. Dr. Premjoti G
Patil

Associate Professor



Dr. T Y Satheesha



Mr. Basavaraj G M



Mrs. Bhavya V



Mrs. Roopa G



Mr. Rohith S

Assistant Professor



Mrs. Rekha K



Mrs. Ashwini



Mr. Nandakishore C V



Mr. Upadya Anant



Mr. Kasetty
Rambabu



Mr. Yaseen Basha



Mr. Mahesh M R



Mr. Sunil Kumar B S



Ms. Sunitha M



Mr. Harish V



Mrs. Souparnika
Jadhav



Ms. Hemalatha B



Mr. Shashikiran R



Mr. Vinay Kumar N



Mr. Manjunath MN



It is indeed a great pleasure for me that the department of Electronics & Communication Engineering has taken a good initiative of showcasing the talents of its staff and students, by unveiling the Fourth edition of newsletter **“TARANGA-2018”**.

I hope that the department continues its good work by doing such activities, thus motivating the staff and student community.

The newsletter contains technical aspects as well as co curricular activities of the department.

I wish and congratulate the ECE HOD and members of the newsletter committee for their effort to release department newsletter TARANGA-2018

Sri. J. Chaithanya Varma, Secretary, NES

I am very much honored and pleased that Department of Electronics and Commutation Engineering has involved in many technical and other activities in building up the student career. Students from ECE department have brought laurels to the institute through their contributions in different activities like academic, research and co-curricular activities. I extend my hearty congratulations to the entire faculty and students of Department of Electronics and Commutation Engineering for their enthusiasm and effort to achieve success.



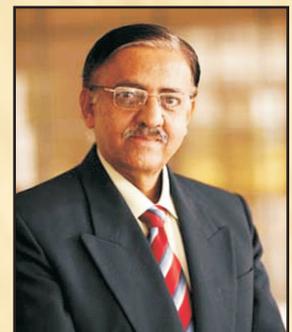
Smt. Bhanu Chaithanya Varma, Member, NES



I am very happy that Department of ECE is releasing a department newsletter named "TARANGA-2018" to commemorate technical publications, achievements of students, faculties and departmental activities for the academic year 2017-2018. The department newsletter is a forum which could aptly be used for recording events & fond memories. I am sure that this newsletter will be informative and resourceful. I owe my hearty appreciations to Dr. Nagesh K N, HOD ECE and his team for their sincere efforts to make the release of this newsletter a reality. I wish them very best in all their future endeavors.

Dr. K.S. Deshikachar Director, NES

At the outset, we congratulate the Electronics and Communication Engineering Department and specially the Newsletter TARANGA-2018 committee members for their efforts in bringing out the Newsletter. Newsletter is an amalgamation of all the events held in the department and it plays an instrumental role in providing a greater exposure of the achievements accomplished by the students and the faculty. We wish all the very best for staffs & students.



Dr. S. G. Gopalakrishna Principal, NCET



It gives me great pleasure to congratulate students, teachers and staff of Electronics and Communication Engineering department for the fourth publication of newsletter. It is believed to be a focus of the inside activities i.e. academics, students and faculty achievement as well as innovation occurring in the department. In the era of engineering and technology this newsletter will motivate the teachers and students of sharing their creativity and new ideas with the world and will help in their overall development. I wish best of luck for Prof. Rohith S & team members for publication of newsletter TARANGA-2018.

Dr. Nagesh K.N HOD, NCET

From Editor's desk



Mr. Rohith S
Associate Professor



Mr. Mahesh M R
Assistant Professor



Ms. Sunitha M
Assistant Professor

It is indeed a great honor to be the Newsletter Editors for the Taranga-2018 and it is an immense pleasure to launch this fourth edition of 2017-2018 academic year.

In this issue, we will recount the various departmental activities in which students and staff members were actively involved since the end of 2017 until the July 2018. The main points are the participation of students and staff members in various activities such as educational, cultural, placements and sports activities besides forming a bridge between flowing thoughts and artistic magnification.

A huge thank you to all the persons who contributed directly and indirectly to this newsletter, without which there wouldn't have been this newsletter issue.

Last but not least, I would like to thank Management, Director, Principal and HOD ECE and the members for their everlasting support throughout the creation of this edition.

Advisory Committee

Dr. S G Gopalakrishna
Dr. N G S Udupa
Dr. Srikanta Murthy K
Dr. Nagesh K N

Principal, NCET
Vice Principal, NCET
Vice Principal, NCET
Professor and HOD, ECE

Editorial Committee

Mr. Rohith S
Mr. Mahesh M R
Mr. Sunitha M

Associate Professor, Dept ECE
Assistant Professor, Dept ECE
Assistant Professor, Dept ECE



About the College

Nagarjuna College of Engineering and Technology (NCET) was established in the year 2001 by Nagarjuna Education Society (NES) Bengaluru, which is supported by Nagarjuna Construction Company (NCC) and is situated in sprawling campus of 100 acres with the state of art facilities. It is renowned for providing value based quality education to prepare students for challenges in the outside world and creating favorable environment for learning. Through its pursuits of excellence in education it aims to serve the growing needs of today's progressive society.

The founder, Shri. J.V.Ranga Raju a leading industrialist and philanthropist, who motivates the younger generation to dream big and strive towards the fruition of their dreams. NCET is well connected to NH-7 (Bengaluru - Hyderabad Highway) and is just 15 Kms from the Bengaluru International Airport, Nandi Hills, Muddenahalli (Birth place of Sir. M. Visvesvaraya), Devanahalli (Birth place of Tippu Sultan) which are well known tourist spots situated close by.

About Department of Electronics and Communication Engineering

The Electronics and Communication Engineering Department was established in year 2001. The Department started with UG programme in Electronics and Communication Engineering. It also have Ph.D. R&D Centre, recognized by VTU.

The department has acquired expertise in the area of Signal Processing, VLSI Design, Wireless Communication and Networks, Optical Fiber Communication, Antenna and RF System Design, Image and Video processing, Embedded system design. Well equipped laboratories have been set up in department for Under Graduate students to resources both in terms of hardware and software. The department has a blend of experienced and well qualified faculty having obtained Masters and Ph.D. degrees from premier institutes and has distinction of working with established national and international research organization.

Faculty members are actively involved in research activities and have many research publications in international & national journals and international conferences to their credit. Faculty members in the department have undertaken many funded research projects, sponsored by the Government and renowned R & D Organizations.

Vision & Mission of the Department

Vision

To transform the students as leaders in Electronics & Communication Engineering to achieve professional excellence in the challenging future.

Mission

- To create an environment for the students to have strong academic fundamentals and enable them to be life-long learners.
- To provide modern tools to the students in the field of electronics and communication to meet the real-world challenges.
- To Develop Communication skill, leadership qualities, team work and skills for continuing education among the students.
- To inculcate Ethics, Human values for solving societal problems and environmental protection.
- Validate engineering knowledge through innovative research projects to enhance their employability and entrepreneurship skills.



UG & PG Toppers List-2017

Management, Principal, HOD & Staff congratulates to all the UG & PG toppers of Academic Year 2017-18

1 st Year B.E				
Sl. No	Place	USN	Student Name	SGPA
1	1 st	1NC 17EC021	Devireddy Brijesh Kumar Reddy	9.558
2	2 nd	1NC17EC056	Neeraj Venkat	9.327
3	3 rd	1NC17EC068	Rohit Kishan	9.288
4	3 rd	1NC17EC069	Roopa S R	9.288
2 nd Year B.E				
1	1 st	1NC16EC045	Meghanashree J	9.471
2	2 nd	1NC16EC070	Sareddy Jaswanth Reddy	9.24
3	3 rd	1NC16EC099	Yerragunta Vija yachandra Reddy	9.183
3 rd Year B.E				
1	1 st	1NC15EC085	Sidda Rushitha	9.654
2	2 nd	1NC15EC007	Aniket S. Ambiger	9.429
3	3 rd	1NC15EC010	Arab Shirisha	9.423
1 st Year M.Tech				
1	1 st	1NC17LVS003	Hemashree.C.M	9.57
2	2 nd	1NC17LVS006	Sunitha K	9.57

Activities in the Department

Industrial visit organized

Industrial visit to Entuple Technologies



Industrial visit to Entuple Technologies, Bengaluru on 15-02-2018 Organized by Department of Electronics and Communication for 4th semester ECE students. Total 42 students along with three faculties Mrs.G.Roopa, Mr. Rohith S, Mr. Mahesh M R have accompanied the students.

Industrial visit to Core EL Technologies



The Department of Electronics and communication, Nagarjuna College Of Engineering And Technology organized a one day industrial visit to " Core EL Technologies" Bengaluru on 29/08/2018 for 5th semester EC students. A total of 42 students along with three faculties Mrs.G.Roopa, Mr. Rohith S, Mr. Mahesh M R have accompanied the students.

Industrial visit to HAL, Bengaluru



The Department of Electronics and Communication, Nagarjuna College Of Engineering And Technology organized a one day industrial visit to "HAL Heritage centre, Bengaluru on 21/08/2018 for third semester EC students. Total 40 students along with three faculty members Mrs.G.Roopa, Mr. Nanda Kishore C V, Ms.Sunitha.M have joined the visit.

HAM Workshop



HAM Workshop organized by ECE department on 9th March. The programme was inaugurated by Dr. S. G. Gopalkrishna, Principal and with Chief Guest Mr. S. Sathyapal, Director, Indian Institute of HAM's. Total 30 students along with two faculties attended the workshop

Student Activities



Mr. Nishanth, IIT Bombay, has visited the college to organize –ROBOTICS Workshop in the month of July 2018 for students of NCET. The students actively participated in the program with a lot of interest to know the importance of implementing a robot.



An one day workshop on “Recent Trends & Technologies in the industry by Paul Joseph Head, Talent Acquisition Asia Specific, L&T Technologies, Bangalore was arranged to 7th semester ECE students 30-8-2017.

STUD SAT Activities



STUDSAT students visited Satish Dhawan space center SHAR ISRO, Sriharikota launch station on the occasion of National Workshop on Challenges and Modern Techniques realizing complex infrastructure on 5th march 2018



STUDSAT students Demonstrated Project at NCET Research and Development Lab on the occasion of Project Exhibition.

Paper Presenttion by ECE Students



Mr. Chikkarinaiah T R, Department of ECE received 1st place in "Poster Presentation and Essay competition" organized by NSS, YRC and Red Ribbon Club on 9th Jan 2018 on the eve of World's Youth Day.



Students of Electronics and Communication Engineering attended conference Held at SJCIT in the month of October 2017



Miss Sai Shashmitha of 7th semester participated in YAMAHA FACINO MISS DIVA 2017, Bengaluru



Hearty Congratulations to Ms. Roopa S R, and Ms. Harshitha C, from 3rd semester ECE achieved First Place in WEBENCH, Drishti Online Contest an online contest held on 28 August 2018 by TI University Program.

Sports activities of ECE Students



Krishika Ponnamma, Department of ECE received 1st place in "Chess competition" Organized by Cambridge Institute of Technology, Bangalore



Krishika Ponnamma and team, Department of ECE Participated and received runner up in "Chess competition" VTU Zonal Tournament Organized by Vemana Institute of Technology, Bangalore

Staff Activies



EC students along with Dr. H Venkatesh Kumar(Professor) and Mrs. Rekha K(Asst. Professor) attended the HAM (Amateur Radio) open air examination conducted by the ministry of communication, Government of India on Tuesday 22nd August 2017 at the Indian Institute of HAMS, Kanteerava Stadium, Bangalore.



Dr. T Y Satheesha, Dept. of ECE, has secured the best paper award in international Conference on emerging trends in Science & technologies for Engineering systems icetstes-2018, SJCIT, on 11th January 2018



Nagarjuna college faculty's cricket team won R L JALAPPA TROPHY in statelevel cricket tournament conducted by RLJIT Doddaballapur, on 28/10/2017, 29/10/2017 and 1/11/2017. Dr. Nagesh KN, HOD, ECE & other EC faculty members participated and Dr. KN Nagesh received Man of the series.



Departmental Events Freshers day & Farewell



Department Of ECE Celebrated Fresher Day on 21/09/2017



Department of Electronics and Communication Engineering celebrated Farewell day in the month of May-2018

On the occasion of Ethnic day and NCET carnival celebrations



Project Exhibition in ECE Department



ECE Department organized Project Exhibition competition for 7th semester students on 19th May 2018 more than 25 batches exhibited their final year projects.

Graduation day - 2018



Graduation day for 8th Semester students (2014-2018) batch was held on 11th June 2018. Course completion certificates were distributed to the outgoing students.

Management and Principal Congratulates to all the EC staff members for securing 3 years NBA from 2018 to 2021

NATIONAL BOARD OF ACCREDITATION
NBCC Place, East Tower, 4th Floor, Bisham Pitamah Marg,
 Pragati Vihar, New Delhi-110 003
 Tel: +91 11 2436 0620-22, 2436 0654 Telex: +91 11 2436 0682
 Website: www.nbaindia.org



NBA
 NATIONAL BOARD
 of ACCREDITATION

F.No. 25-174/2010-NBA Dated: 09-06-2018

To
 The Principal
Nagarjuna College of Engineering and Technology,
Venkatagiri Kote Post, Devanahalli,
Bangalore- 562 164,
Karnataka

Subject: Accreditation status of programmes applied by Nagarjuna College of Engineering and Technology, Venkatagiri Kote Post, Devanahalli, Bangalore- 562 164, Karnataka.

Sir,

This has reference to your application I.D. No.2684-27/12/2017 seeking accreditation by National Board of Accreditation in Tier-II format to UG Engineering programs offered by **Nagarjuna College of Engineering and Technology, Venkatagiri Kote Post, Devanahalli, Bangalore- 562 164, Karnataka.**

2. An Expert Team conducted on-site evaluation of the programs from 4th to 6th May, 2018. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The competent authority in NBA has approved the following accreditation status to the programs as given in the table below:

Sl. No	Name of the Program (UG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Information Science & Engineering	Tier-II June 2015 Document	Provisionally Accredited	Academic Years 2018-2019 to 2020-2021 i.e. upto 30-06-2021	Accreditation status granted is valid for the period indicated in Col.5 or till the programs has the approval of the competent authority, whichever is earlier
2.	Electronics & Communication Engineering		Provisionally Accredited		
3.	Civil Engineering		Provisionally Accredited		
4.	Mechanical Engineering		Provisionally Accredited		

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The programs have been granted provisional accreditation. **Nagarjuna College of Engineering and Technology, Venkatagiri Kote Post, Devanahalli, Bangalore- 562 164, Karnataka** should submit the Compliance Report at least six months before the expiry of validity of accreditation mentioned above to be eligible to be considered by the concerned Committee in NBA for further processing of the accreditation status. This could entail further extension of accreditation or a revisit, as deemed appropriate by NBA Committees.

(Signature) Contd/...

Details of Workshop/FDP attend by ECE faculty

Sl. No.	Name of the Teacher	Name of the Conference etc.	Place	Date
1.	Dr.H.Venkatesh Kumar	IEEE IPR Workshop 2018	VTU Regional Office Bangalore	25 th August 2018
2.	T. Y. Satheesha	IEEE workshop on "Internet Protocol and standards"	NCET, Bangalore	20th July 2018.
3.	Mr. Rohith.S	FDP on RF circuits & systems	Ramaiah Institute of Technology, Bangalore	23 rd to 28 th July 2018

Details of Publications by EC faculty and students

Sr.No	Name of the Authors	Title of the Paper	Journal Name	Volume Number Issue Number	Year of publication
1.	Nagesh.K.N, P.Krishna Kanth Varma, P.V. Rama Raju P. B. Sai Dileep	Array Synthesis of Circular and Planar Antenna Arrays for Pattern Nulling Using Invasive Weed Optimization Algorithm	International Journal of Control Theory and Applications	Vol 10, Issue 26, PP 73- 81	July 2017
2.	Dr. Venkatesh kumar.H, Jayalakshmi.H, Kasetty Rambabu	Analysis Of High Speed Wallace Tree Multiplier Using Compressors For DSP Applications	Journal of Engineering Research and Application	ISSN : 2248- 9622, Vol. 8, Issue 7 (Part - III), pp 44-48	July 2018
3.	Dr. Venkatesh Kumar H, Yogesh. K.V	Design of Booth Multiplier using Double Gate MOSFET	International Journal of Computer Applications	Vol. 167, Issue 4, PP 19-23	June 2017
4.	Rohith S.Dr.Venkatesh Kumar.H, Malavika.M.S	An Efficient VLSI Implementation of Double Error Correction Orthogonal Latin Square Codes	International Journal of Computer Applications	Volume 170, No.6, ISSN: (0975 – 8887), PP-21-24	July 2017
5.	Dr. Venkatesh Kumar.H, Jayalakshmi.N , Kasetty Rambabu	Analysis Of High Speed Wallace Tree Multiplier Using Compressors For DSP Applications	Journal of Engineering Research and Application	ISSN : 2248- 9622, Vol. 8, Issue 7 (Part - III) pp 44-48	July 2018
6.	Dr.Premjyoti Patil, Taranath N.L.,Dr. Shantakumar B Patil, Dr. C.K.Subbaraya	Survey Paper on Integrated MDSS using DataMining	International Journal of Emerging Trends & Technology in Computer Science (IJETTCS)	Volume 6, Issue 3, ISSN 2278-6856, PP 377- 381	May- June 2017
7.	Dr.Premjyoti Patil, <i>Mrs. Swetha Vura,</i>	A Study on various object detection methods in satellite imagery	Indian Journal Of Applied Research	Volume - 8,Issue-3, ISSN - 2249- 555X	March 2018
8.	Mr.Basavaraj G M,,Ashok Kusagur	Crowd Anomaly Detection Using Motion Based Spatio-Temporal Feature Analysis	Indonesian Journal of Electrical Engineering and Computer Science	Vol. 7, No. 3, , pp. 737 ~ 747 DOI: 10.11591.pp73 7-747	Septemb er 2017
9.	Mr.Basavaraj G M	Combining Optical Flow and Heat Map Feature Vectors for Crowd Behavior	Jour of Adv Research in Dynamical & Control Systems,	Vol. 10, 03, ISSN 1943- 023X, PP 1176-1178	Feb 2018

Students Academic Events

Sl.No	Student Name	USN	Event participated	Date (DD/MM/YY)	Name Of the Organizers
1	Mounica N	INC14EC060	Workshop on Android Programming	22/02/2018 to 24/02/2018	Dept. of ISE, NCET
2	Krishika Ponnamma	INC14EC047	Climate Change Quiz 2017	27/09/2017	IISc, Bengaluru
3	Sirisha C A	INC14EC017	Nptel Online Certification	Aug-Oct 2017 (8 week Course)	IIT, Kharagpur

Management, Principal and HOD ECE Congratulates faculty members for successful Ph.D registration in VTU for the Academic year 2017-2018

			
Mrs. Roopa G Associate Professor	Mrs. Rekha K Assistant Professor	Mrs. Ashwini S Assistant Professor	Mr. Shasikiran R Assistant Professor

NCET Alumni Students (2018 pass out batch) Pursuing Higher Studies

HIGHER STUDIES				
				
Krishna Ponnamma C R INC14EC047 at MSRIT, Bangalore	Nisha S K INC14EC067 in SVCE, Bangalore	Chandana B INC14EC019 at Manipal	Yuvaraj G INC14EC102 at Manipal	Vidhyshree K V INC14EC098 at SVCE, Blr

Glimps of Placed Students

Management & Principal Hearty Congratulates to Placed Students

			
Name: Mr. R Tejavarma Company: Value Labs Designation: Software Engineer	Name: Ms. Lakshmi Shree K A Company: Synopsis India Pvt.Ltd Designation: Software Developer Trinee	Name: Mr. Hindusagar R Company: Global Edge Software Ltd Designation: Software Engineer	Name: Mr. Avinash S G Company: Test and Verification Solutions India Pvt.Ltd Designation: Verification Engineer



Glimps of Placed Students (continued)

Capgemi Technologies



N Alekya
INC14EC063
Cognizant



Uppu Asish
INC14EC095
Intel Technologies



G Mounika
INC14EC061
Emphasis



S Vinay Kumar Reddy
INC14EC082



Guruprasanna S A
INC14EC031
Dell Technologies



Praveen
INC14EC074
NTT Data



Nikhil Ganapathi
Raykar INC14EC066
Synopsys



M.Bazeed Ali
INC14EC058
Global Edge



Sushmitha D
INC14EC091
SLK Software Services



Varshini L
INC14EC096
DXC Technologies



K V Sai Charan Varma
INC14EC043
Analog Devices



Lakshmishree K A
INC14EC050



Hindusagar R
INC14EC035
Vistex Asia Pvt Ltd



Arpitha M
INC14EC009
Intense Technologies Limited



C.Sirisha
INC14EC017
UST Global



Jajith B C
INC14EC036



Avinash S G
INC15EC402



S Sai Vamsi
INC14EC087



M Satyavamsi
INC14EC057



Divya R N
INC14EC023

PROGRAM OUTCOMES (POs)

PO1. Engineering knowledge:

Apply the knowledge of mathematics, science, engineering fundamentals, and electronics and communication engineering principles to the solution of complex problems in electronics and communication engineering.

PO2. Problem analysis:

Identify, formulate, research literature, and analyze complex electronics and communication engineering problems reaching substantiated conclusions using first principles of mathematics, and engineering sciences.

PO3. Design/development of solutions:

Design solutions for complex electronics and communication engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4. Conduct investigations of complex problems:

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions related to electronics and communication engineering problems.

PO5. Modern tool usage:

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex electronics and communication engineering activities with an understanding of the limitations.

PO6. The engineer and society:

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional electronics and communication engineering practice.

PO7. Environment and sustainability:

Understand the impact of the professional electronics and communication engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8. Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the electronics and communication engineering practice.

PO9. Individual and team work:

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10. Communication:

Communicate effectively on complex electronics and communication engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11. Project management and finance:

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12. Life-long learning:

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.