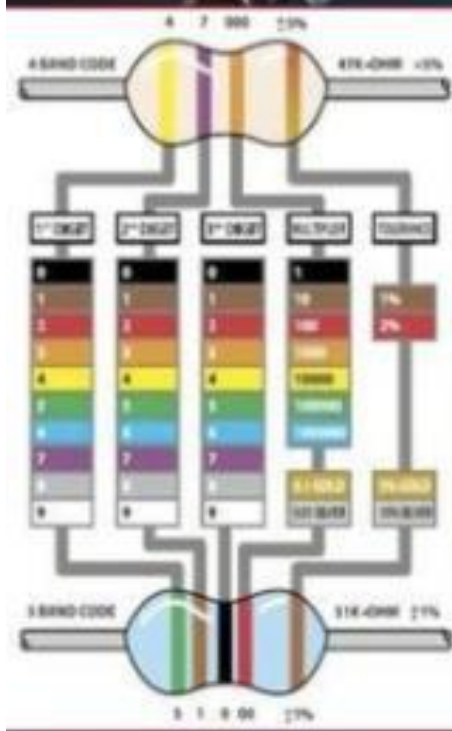
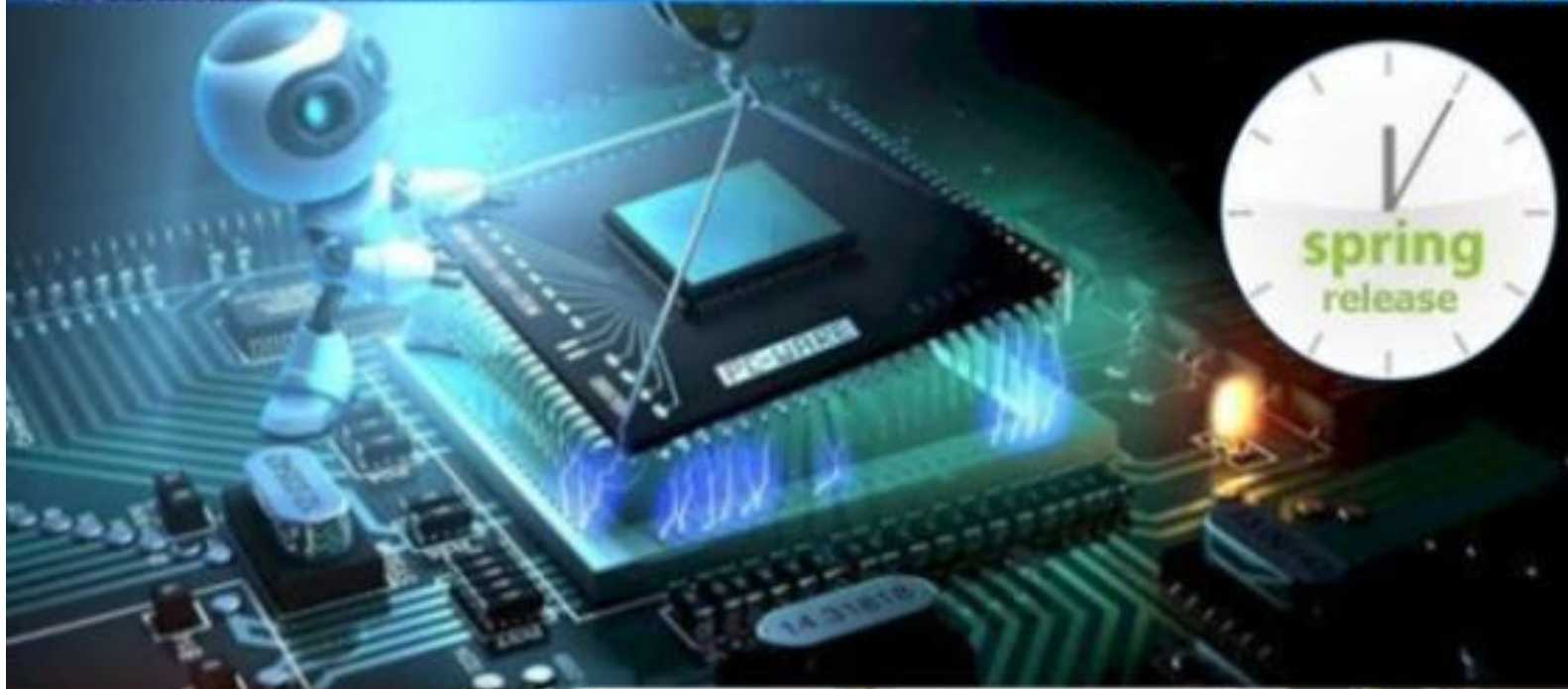


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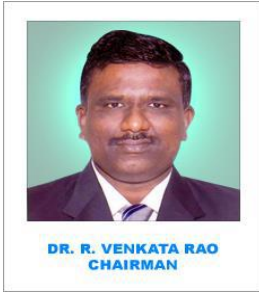
**Vol. 2 - No. 1 JUN-15-NOV-15**



**NRI Institute of Technology**

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# NRI INSTITUTE OF TECHNOLOGY

(Approved by AICTE - New Delhi, Affiliated to JNTUK, Kakinada)

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POTHAVARAPPADU-521 212 VIJAYAWADA, Krishna Dist.

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Vision of the Institute:

To produce Professionally Excellent, Knowledgeable, Globally Competitive and Socially Responsible Engineers and Entrepreneurs.

### Mission of the Institute:

M1	Providing quality education through state-of-the-art infrastructure, laboratories and committed Staff.
M2	Establishing a continuous industry-institute interaction, participation and collaboration to contribute skilled Engineers.
M3	Involving Faculty members and Students in Research and Development to become globally competitive and for the betterment of the Society.
M4	Developing human values, social values, entrepreneurship skills and professional ethics among the Technocrats.

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M2	To establish a continuous Industry Institute Interaction, Participation to produce Skillful Electronics and Communication Engineers.
M3	To involve Faculty members and Students in Research and Development Works for globally competitive Electronics and Communication Engineers.
M4	To develop Human values, Social values, Entrepreneurship skills and Professional Ethics among Electronics and Communication Technocrats.



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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Programme Educational Objectives (PEO's):

<b>PEO1</b>	To acquire knowledge in Basic Sciences to improve core competency skills and deliver efficient solution to the problems in ECE and allied fields.
<b>PEO2</b>	To possess the ability in analyzing real time problems and design models to meet the societal needs.
<b>PEO3</b>	To develop communication skills, leader ship qualities with good inter-personal relationship in diverse professions of varied technical services.
<b>PEO4</b>	To promote higher educational & research to meet the socio-economic needs.

### PROGRAM OUTCOMES (PO's)

At the time of graduation, students from the Electronics & Communication Engineering program will possess:

S.No		Graduate Attributes (GA)	Program Outcomes (POs)
<b>PO1</b>	<b>a</b>	<b>ENGINEERING KNOWLEDGE</b>	<b>PO1:</b> Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
<b>PO2</b>	<b>b</b>	<b>PROBLEM ANALYSIS</b>	<b>PO2:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>PO3</b>	<b>c</b>	<b>DESIGN/DEVELOPMENT OF SOLUTIONS</b>	<b>PO3:</b> Design solutions for complex 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.
<b>PO4</b>	<b>d</b>	<b>CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS</b>	<b>PO4:</b> 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.

<b>PO5</b>	<b>e</b>	<b>MODERN TOOL USAGE</b>	<b>PO5:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
<b>PO6</b>	<b>f</b>	<b>THE ENGINEER AND SOCIETY</b>	<b>PO6:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>PO7</b>	<b>g</b>	<b>ENVIRONMENT AND SUSTAINABILITY</b>	<b>PO7:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>PO8</b>	<b>h</b>	<b>ETHICS</b>	<b>PO8:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>PO9</b>	<b>i</b>	<b>INDIVIDUAL AND TEAM WORK</b>	<b>PO9:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>PO10</b>	<b>j</b>	<b>COMMUNICATION</b>	<b>PO10:</b> Communicate effectively on complex 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.
<b>PO11</b>	<b>k</b>	<b>PROJECT MANAGEMENT</b>	<b>PO11:</b> 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.
<b>PO12</b>	<b>l</b>	<b>LIFE-LONG LEARNING</b>	<b>PO12:</b> 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.

### **PROGRAM SPECIFIC OUTCOMES (PSO's)**

Electronics and Communication Engineering graduates will:

<b>PROGRAM SPECIFIC OUTCOMES (PSOs)</b>	
<b>PSO I.</b>	Identify, analyze, design, formulate and solve problems in analog and digital circuits, VLSI, embedded, communications and associated fields using modern engineering hardware and software tools.
<b>PSO II.</b>	Identify indigenous materials and methods for producing compact consumer and entertainment goods considering quality, public and environmental safety at affordable prices.


## DEPARTMENTAL ACTIVITIES





### Departmental of Electronics & Communication Engineering

A Two Day Workshop on “Low Power VLSI Using TANNER EDA” was conducted by Pantech Pro Pvt. Ltd on 10<sup>th</sup>-11<sup>th</sup> August, 2015. More than 100 students of 4<sup>th</sup> year ECE had actively participated in this session. Speaking on the occasion, Chief Guest “Mr. S. Manoj & T. Sundar”, Senior Project Engineers delivered about importance of Low Power VLSI Using Tanner EDA tools in projects. In the 2 days workshop, students gained knowledge on Low Power VLSI Using TANNER EDA tools and different layout designs with hands on experience. Observing the keen interest and enthusiasm expressed by the students in the workshop, the resource person conducted a competition in designing layouts. Participation certificates were distributed to students. The chief guest was honored by the Principal, Dr. C. Naga Bhaskar and Head of the Department with a memento.



## PUBLICATIONS OF STAFF IN INTERNATIONAL JOURNALS

DEPT	TITLE	JOURNAL	AUTHORS	
ECE	An Enhanced Technique For Transferring The Image Using Wavelet SVD Mosaic Images Under Color Retrieval Mode.	IJRCC, 2278-5841(0), 2320-5156(P). Nov-2015	R Sunitha	

<b>ECE</b>	Wavelet Quality assement for mapping Images.	IJRCCT, Vol 4, Issue - 11, ISSN (o)- 2278-5841, ISSN(p)- 2320-5156, Nov-2015.	V. Srinivasa Rao	
<b>ECE</b>	Developing HGGSA Apporach for beam forming in smart antenna systems.	VSPICE- 2K15, ,Sepcial Isuue - Vol 1,No 3, ISSN 2319- 2518, Nov 2015.	S.V Rama Rao	
<b>ECE</b>	An Effiecient and Compressive Image Contrast Enhancement using Tone mapped Operator.	IJIRAT, Vol 7, Issue 12, ISSN 2319-1467, Nov 2015.	M. Mahesh	
<b>ECE</b>	Optimization of Latency for Color Interpolation Processor.	IJAER, ISSN 0973-4562, Volume 10, Number 22 pp 42810- 42814, 2015.	T.Nistchala	

### FACULTY PARTICIPATION IN FACULTY DEVELOPMMENT PROGAMMES

Sl. No.	Name of the Faculty	FDP's	Organized By	Date of Events
1	Y.Arptha	Advanced Digital Signal Processing & Applications	V.R Siddhartha Engineering College	12 & 13 Sep 2015

### WORKSHOPS IN CURRENT ACADEMIC YEAR

Sl. No.	Name of the Faculty	Workshops	Organized By	Date of Events
1	Sk. Ashraf Ali	Speech Processing	Shri Vishnu Engg College for Woman	12 & 13 Sep 2015
2	K. Prathyusha	Speech Processing	Shri Vishnu Engg College for Woman	12 & 13 Sep 2015
3	Ch. Swapna	Speech Processing	Shri Vishnu Engg College for Woman	12 & 13 Sep 2015
4	Ch. Uday Bahasar	ARM Processor and its Applications	USHA RAMA College of Engg and Technology	4 & 5 Aug 2015
5	G. Siva Rama Krishna	ARM Processor and its Applications	USHA RAMA College of Engg and Technology	4 & 5 Aug 2015
6	A. Satti Babu	ARM Processor and its Applications	USHA RAMA College of Engg and Technology	4 & 5 Aug 2015
7	K. Sowjanya	ARM Processor and its Applications	USHA RAMA College of Engg and Technology	4 & 5 Aug 2015

## Seminars Attended

Sl. No.	Name of the Faculty	Seminars	Organized By	Date of Events
1	Abdul Rehman	Smart Antenna Technologies For Future Wireless Systems	MIC College of Technology	21 & 22 Aug 2015
2	S.V. Rama Rao	Smart Antenna Technologies For Future Wireless Systems	MIC College of Technology	21 & 22 Aug 2015
3	M. Suneel	Smart Antenna Technologies For Future Wireless Systems	MIC College of Technology	21 & 22 Aug 2015
4	R. Upendra Rao	Smart Antenna Technologies For Future Wireless Systems	MIC College of Technology	21 & 22 Aug 2015
5	Y.Arptha	Smart Antenna Technologies For Future Wireless Systems	MIC College of Technology	21 & 22 Aug 2015

## STUDENTS' ACHIEVEMENTS

### TECHNICAL PARTICIPATIONS BY STUDENTS IN VARIOUS COLLEGES

The vibrant students of Department of ECE had participated in various events conducted by other colleges in and around the city and triumphed prizes.

### LIST OF PARTICIPANTS IN TECHNICAL & CO CURRICULAR EVENTS

#### EVENTS WITHIN THE STATE

#### Details of students participated in Fest Events

S.No	Name of the Student	Title of the Event	Name of the Host Institute/College	Participated
1	P.Lalitha	Paper Presentation	Lakkireddy Balireddy Engineering College, Mylavaram	Participated
2	M.Jayanth Kumar	Cruze Event		Participated
3	K.V.K Chaitanya	Technical Quiz		Participated
4	P.V. Sai Srikanth	Technical Quiz		Participated
5	G.Karthik	Nipuna-Project Expo		Participated

### Engineer's Day-15.09.2015

As a gratitude to Sir Mokshagundam Visweswarariah, on the eve of ENGINEERS DAY, the department conducted TECHNICAL QUIZ and PAPER PRESENTATION contest to bring out the technical abilities and skills of the student. The session started with a brief talk on Sir M.Visweswarariah's achievements as an eminent engineer. The session went in a fruitful way with participation of 53 groups (170 members) in quiz and 21 batches (2 per batch) participation in paper presentation.

# PLACEMENTS

**MANAGEMENT & STAFF  
CONGRATULATE ALL THE FINAL  
YEAR STUDENTS WHO TOOK  
OFFER LETTERS FROM VARIOUS  
ESTEEMED COMPANIES**

## STUDENTS PLACED IN ESTEEMED COMPANIES 2015-16

S.No	Roll No.	Student Full Name	Branch	Placed Company Name	Package
1	12KN1A0406	ARIF SHAIK	ECE-A	CMS	2.5 L
2	12KN1A0445	MANOJ KUMAR NAVULURI	ECE-A	CMS	2.5 L
3	13KN5A0411	MAHESH NAGA KUMAR TOKALA	ECE-B	CMS	2.5 L
4	12KN1A0417	DURGA BHAVANI VANKINI	ECE-A	CMS	2.5 L
5	13KN5A0406	GOPIKRISHNA AREPALLI	ECE-A	CMS	2.5 L
6	12KN1A0442	MANIKANTA MUKKU	ECE-A	CMS	2.5 L
7	12KN1A0408	BALA SRIVANI VARANASI	ECE-A	CMS	2.5 L
8	12KN1A0418	DURGA DEVI DOPPA	ECE-A	CMS	2.5 L
9	12KN1A0403	ANUSHA BURLA	ECE-A	CMS	2.5 L
10	12KN1A0444	MANOJ KUMAR SUNKARA	ECE-A	CMS	2.5 L
11	12KN1A0437	LAKSHMI THIRUPATAMMA MATTA	ECE-A	CMS	2.5 L
12	12KN1A04B7	VIKAS RAJ PALLAPATI	ECE-B	CMS	2.5 L
13	12KN1A0438	LAKSHMI VARA PRASAD JANE	ECE-A	Good Through	2.4 L
14	12KN1A0424	HARIKA BATHULA	ECE-A	Good Through	2.4 L
15	13KN5A0405	ESUB SHAIK	ECE-A	Good Through	2.4 L
16	12KN1A0482	SAHITHI KONDRURU	ECE-B	Good Through	2.4 L
17	12KN1A0469	PRAVEEN KUMAR BEJAVARAPU	ECE-B	Good Through	2.4 L
18	12KN1A0419	EKANATH SAI RAM YENDURI	ECE-A	Hexaware Technologies	2.5 L

19	12KN1A0410	BHARATH THIRUKKOVALLURI	ECE-A	Hexaware Technologies	2.5 L
20	12KN1A0420	ESTHER RANI GANJI	ECE-A	Hexaware Technologies	2.5 L
21	12KN1A0449	NAGA DURGA SRAVANI OGIRALA	ECE-A	Hexaware Technologies	2.5 L
22	12KN1A0429	JITENDRA DATTA KOTA	ECE-A	Hexaware Technologies	2.5 L
23	12KN1A0428	JAYADEEP RAMANADHAM	ECE-A	Hexaware Technologies	2.5 L
24	12KN1A0422	GOWTHAM MUDRABOINA	ECE-A	Hexaware Technologies	2.5 L
25	12KN1A0462	NIKHIL KAPILAVAYI	ECE-B	Hexaware Technologies	2.5 L
26	12KN1A0465	POOJA RAMYA GAJARAO	ECE-B	Hexaware Technologies	2.5 L
27	12KN1A0468	PRAVEEN PALADUGU	ECE-B	Hexaware Technologies	2.5 L
28	12KN1A0493	SHAHANAZ SHAIK	ECE-B	Hexaware Technologies	2.5 L
29	12KN1A0495	SINDHURA PENUGONDA	ECE-B	Hexaware Technologies	2.5 L
30	12KN1A04B0	V N D M PRAVALLIKA ADDAGIRI	ECE-B	Hexaware Technologies	2.5 L
31	12KN1A0471	PRUDHVIRAJ NATTALA	ECE-B	Hexaware Technologies	2.5 L
32	12KN1A0431	JOSHUA ORSU	ECE-A	Hexaware Technologies	2.5 L
33	12KN1A04A6	SUBRAHMANYA SAI KRISHNA BOMMULURI	ECE-B	NTT Data	3.0 L
34	12KN1A0455	NAGA VARA SAI MOUNIKA PANJALA	ECE-A	SLK DATA	2.4 L
35	12KN1A0439	LAVANYA KONDAVEETI	ECE-A	TCS	3.5 L
36	12KN1A0416	DURGA BHAVANI MATTHI	ECE-A	TCS	3.5 L
37	12KN1A0440	MADHURI GUNDARAPU	ECE-A	TCS	3.5 L
38	12KN1A0409	BALA TRIPURA SUNDARI BURUGULA	ECE-A	TCS	3.5 L
39	12KN1A0430	JOACHIM BABU KALAPALA	ECE-A	TCS	3.5 L
40	12KN1A0443	MANISH CHARAN MADDHU	ECE-A	TCS	3.5 L
41	12KN1A04B9	VISHNU PRIYA KODE	ECE-B	TCS	3.5 L
42	12KN1A0456	NAGA LAKSHMI PRASANNA PULLABHOTLA	ECE-A	Tech Mahindra	3.25 L
43	12KN1A0401	AMEETHA KAKANI	ECE-A	Tech Mahindra	3.25 L

44	12KN1A0404	ANUSHA DUVVURI	ECE-A	Tech Mahindra	3.25 L
45	12KN1A0432	KARTHIK KASARAPU	ECE-A	Tech Mahindra	3.25 L
46	12KN1A0433	KAVYA KATRAGANTI	ECE-A	Tech Mahindra	3.25 L
47	12KN1A0446	MARY VINOLIA DODDA	ECE-A	Tech Mahindra	3.25 L
48	12KN1A0447	MOHANA KRISHNA KAKA	ECE-A	Tech Mahindra	3.25 L
49	12KN1A0457	NAGA LALITH VIKASH VUMMITI	ECE-A	Tech Mahindra	3.25 L
50	12KN1A0460	NAZEER SHAIK	ECE-A	Tech Mahindra	3.25 L
51	12KN1A0498	SOWMYA BHASKARUNI	ECE-B	Tech Mahindra	3.25 L
52	12KN1A04A8	TARAKESWARI KOLUSU	ECE-B	Tech Mahindra	3.25 L
53	12KN1A04B2	V.S.N.SAI PADMA PRIYA ADHIKARLA	ECE-B	Tech Mahindra	3.25 L

**CULTURAL ACTIVITIES: FRESHERS DAY CELEBRATIONS IN JULY 2015**



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