

GRT INSTITUTE OF ENGINEERING AND TECHNOLOGY, TIRUTTANI



Approved by AICTE New Delhi and Affiliated to Anna University Chennai.



GRT MAHALAKSHMI NAGAR, CHENNAI-TIRUPATHI HIGWAY, TIRUTTANI-631209. THIRUVALLUR DISTRICT. Ph.No: 044-27885400/6400

ADMINISTRATIVE OFFICE No.31, Venkatesan Street, T-Nagar, Chennai-600017. Ph.No:044-24352020.



Visit us @grt.edu.in

ABOUT THE COLLEGE

GRT Institute of Engineering and Technology, the jewel in the crown of GRT Group of Educational Institutions promoted by Sola Raju Dhaunuskodi Raja Thai Ammal Memorial Educational Charitable Trust. The College is managed by GRT Group which is a house hold name in this country. The group is headed by a great visionary and philanthropist Shri G. Rajendran who is a life-time award in the field of Jewellery for his outstanding contribution to the Jewel Industry. The chairman of the Group is a familiar and reputed entrepreneur with Midas touch of success in the areas of Jewellery, hotel chains and non-conventional power. He is committed for quality and perfection.

It is the dream of the chairman to provide aspiring technocrats, the right knowledge base and rigorous training in order to make them a force to reckon with the global Engineering Industry. The trust comprises a team of highly respected and recognized professionals in the field of Education ,Hotel Industry ,Management , Jewellery dedicated in creating an institution imparting High quality technical education to the students community in the rural area.

GRT Group of Institutions has emerged as premier educational Institutions providing not only quality engineering, nursing and teacher education to mould the students into technologically sound, efficient, effective and creative, but also to mould them into responsible global citizens. The college bestows, with the guidance of the scholars, the relevant knowledge and training to make the students successful entrepreneurs, scientists, engineers, educationists and health care experts.

The GRT Group of Education Institutions is promoted by Mahalakshmi Education & Charitable Trust. This Organization was initiated by the visionary Sri.G.Rajendran – the chairman of the GRT Group and well supported my his son Shri G.R Anandapadmanabhan-Managing Director of GRT Group.

The sheer dedication and commitment in offering quality education has made GRT Group of Education Institutions grow from strength to strength each year. Today the group comprises GRT Mahalakshmi Vidyalaya Matriculation Hr.Sec. School, GRT Institute of Engineering and Technology, GRT College of Nursing and GRT College of Education. Each one has come to be known as reputed institution of its own field.

GRT Institute of Engineering and Technology, was established in the year 2008 and has already grown in to one of the most reputed institution in the city. The desire of the chairman is to provide aspiring technocrats the right knowledge base and proper training in the field on par with leading institutions of the world. The courses offered are: B.E. (Civil, Mechanical, Electrical & Electronics), Automobile, Electronics & Communication, Computer Science), M.E. (Communication & Networking, Manufacturing Engineering), M.B.A (Business Administration)



ABOUT THE DEPARTMENT

The department was established in 2008 with 60 students. The department has the post graduate course (M.E.-Communication and Networking) with intake of 24 established in the year 2013. The department boasts of dedicated staffs who work tirelessly to bring out competent, disciplined and technologically sound engineers. Moreover, our department prepares engineers in state of the art technologies in a conducive learning atmosphere, which ensures better interaction between students and staff through counseling. We also have a fully equipped laboratory that enhances the students' experience in solving practical engineering problems. Faculty members having ample experience in the areas of specializations include VLSI Design, Communication Systems, Networking, DSP, and Embedded Systems, DIP, Medical Electronics and related software& hardware Tools.













INSTITUTE VISION

To be at the forefront of technical education, turning out high quality engineering and technical manpower to meet global needs, through academic excellence, stimulating a research-oriented ambience and inspiring teaching.

INSTITUTE MISSION

- Inculcating a culture of quality in all spheres of teaching and learning.
- Providing fully equipped state of the art infrastructure and facilities.
- Creating an academic ambience for students to realize their dreams.
- Practicing innovative and interactive teaching in theory and practice across Curriculum.
- Implementing placement and training activities for holistic development, from year one onwards.
- Generating a future ready culture, that embraces challenges and acts as a change catalyst.











DEPARTMENT VISION

To empower the students in future trends of Electronics and Communication Engineering, satisfying the societal needs ethically and promoting research activities in latest technologies among the students to produce a quality engineers and powerful entrepreneurs

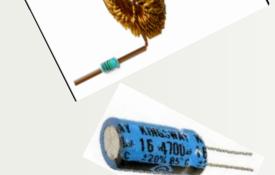
DEPARTMENT MISSION

M1. To provide a special learning environment to empower the students to confront the challenges of the Electronics and Communication Engineering field.

M2. To provide ethical and value based education by promoting activities addressing the societal needs.

M3.To fulfill the research interests of faculty and students by promoting and sustaining in house research facilities so as to obtain the reputed publications and patents.

M4.To provide quality education and to impart entrepreneurial and employable skills.





Message from the Management

I am extremely happy in releasing the half-yearly newsletter, highlighting the activities of the department between 2018 and 2019 (January 2019 - May 2019). The laudable exercise of the students and staff of this Institution has already brought I congratulate the staff and students for this achievement. I wish that everyone continue their untiring efforts not only to retain this award but to grow to further high standards. I congratulate all the editorial members for releasing this newsletter.

Shri.G.Rajendran



Message from the Head of the Institution

I am delighted in addressing the members of Electronics and communication engineering through this newsletter which will benefit the students and will encourage them to accomplish things. There is famous saying "Even if I knew that tomorrow the world would go to pieces, I would still plant my apple tree". Accordingly I wish the students to excel and be distinguished in their respective area of interest. I adulate the efforts made in publishing the first issue of the newsletter. I wish all the participants all the best and to make use of this opportunity. I thank the management HOD, staff and organizers for releasing this news letter.

Prof. Dr.S. Arumugam



Message from HOD/ECE

Education is what removes our doubts and fears; what makes us happy and peaceful; what makes us better human beings" In today's world, everyone aims for a fast-track career. The key requirements for career growth are continuous learning, improving one's skill-sets and being competent. We can either learn from our mistakes or from other people's experiences and teachings. This edition will comprise the achievements by faculty members and students and also, the events that took place in the department during the academic year 2018 - 2019(January 2019 -May 2019).I congratulate the Editorial Board for their effective work in making this into a reality.

Dr.P.Sivakumar

S.No	Name of the Faculty	Event	Topic	Date /Year/ Venue Details
1	Dr.P.SIVAKUMAR	FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
		FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
2	Dr.C.VISWANATHAN	The computer journal	Femur bone volumetric estimation for osteoporosis classification using optimization- based deep belief network in X-ray images	Journal, 2019
		FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
3	Dr.K.GUNASEKARAN	International journal of innovative research in computer and communication engineering, vol 7 issue 2	Semi dynamic underwater wireless sensor network based on differential evolution motion planning	Journal, 2/1/2019
		International journal of innovative research in science, engineering and technology, vol 8, issue 3	Exploring the effect of various cluster structures and improvement of energy consumption in cognitive radio wireless sensor network	Journal, 3/1/2019
4	Dr.S.A.YUVARAJ	FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
5	Mr.V.SORNAGOPAL	International Conference on innovative and emerging trends in engineering and technology, organized by Panimalar institute of technology	A microstrip E shaped patch antenna for ISM band applications with defective ground structures	Journal, 4/1/2019
6	Mr.S.SENTHILKUMAR	FDP	Soft computing techniques and its applications	Sri venkateswara college of engineering, 10-06-2019 to 14-06-2019
		International for research in applied science in engineering and technology IJRASET	Analyzing the effects of Graph Construction Methods on Image using Graph Signal Processing	Journal, 5/1/2019

S.No	Name of the Faculty	Event	Торіс	Date /Year/ Venue De- tails
		FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
7	Mr.C.E.MOHANKUMAR	International journal of innovative research in science, engineering and technology, vol 8, issue 4	Overlapping community detection model in online social networks	Journal, 4/1/2019
		FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
		Workshop	Artificial intelligence and deep learning	Siddhartha institute of engineering and technology, 23-02-2019 to 24-02-2019
8	Mr. A.S. LOGANATHAN	International journal of innovative research in computer and communication engineering, vol 7 issue 2		Journal, 4/1/2019
		FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
9	Mr.P.G.GOPINATH	Workshop	Artificial intelligence and deep learning	Siddhartha institute of engineering and technology, 23-02-2019 to 24-02-2019
		FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
		FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
10	Mr.S. NIJANDHAN	S. NIJANDHAN International journal of innovative research in science, engineering and technology, vol 8, issue 3		Journal, 3/1/2019
11		FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
	Mr.DHARANI KUMAR	International journal of innovative research in computer and communication engineering volume 7, Issue 2.	Implementation of a two wheel self balancing robot based on inverted pendulum concept using Node-MCU	Journal, 2/1/2019

S.No	Name of the Faculty	Event	Торіс	Date /Year/ Venue De- tails
		FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
		Seminar	Cryptocurrency mining	IFET college of engineering, 9/2/2019
12	Mr.K.BALAJI	International journal of innovative research in computer and communication engineering, vol 7 issue 2	Design and development of driver's driving pattern analysis for automatic license issuing system	Journal, 2/1/2019
		International journal of innovative research in science, engineering and technology, vol 8, issue 3	Design and implementation of low cost modular atmospheric water generator using IOT	Journal, 3/1/2019
		International journal of innovative research in computer and communication engineering, vol7 issue2		Journal, 4/1/2019
	Mr.C.AUGUSTINE	FDP		Saveetha Engineering college, 03-05-2019 to 10-05-2019
13		International journal of innovative research in computer and communication engineering volume 7, Issue 2.	Automatic date fruit recognition from natural images using random forest algorithm and SVM	Journal, 4/1/2019
		FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
14	Mr.NARESHKUMAR	International journal of innovative research in computer and communication engineering, vol 7 issue 3	A hybrid preserving identity – privacy anonymous data sharing in reverse engineering	Journal, 3/1/2019
15	Mr.M.KAMESH International journal of innovative research in science, engineering and technology, vol 8, issue 3		Energy efficient link delay aware routing using predicted remaining deliveries in wireless sensor networks	Journal, 3/1/2019
16	Ma II CANDINA	FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
16	Ms.U.SANDHYA	IOSR Journal of engineering, pg 76-79	Key based color and pattern selection in color QR im- ages for vision application	Journal, 2019

S.No	Name of the Faculty	Event	Торіс	Date /Year/ Venue Details
		FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
		International journal of innovative research in computer and communication engineering, vol 7 issue 3	A Quantitative evaluation of tuberculin skin using SVD	Journal, 3/1/2019
17	Mr.D.SARATHY	International journal of innovative research in computer and communication engineering, vol 7 issue 2	Design and development of driver's driving pattern analysis for automatic license issuing system	Feb-19
		International journal of innovative research in science, engineering and technology, vol 8, issue 3	Design and implementation of low cost modular atmospheric water generator using IOT	Mar-19
	Ms.R.NATHEA	International journal of innovative research in science, engineering and technology, vol 8, issue 3	Power theft detection and power energy saving by using Internet of Things	Journal, 3/1/2019
18		IOSR Journal of engineering, pg 68-75		Journal, 2019
		International journal of innovative research in computer and communication engineering volume 7, Issue 4	Edge computing connectivity maximization for narrow band IOT system with NOMA for 5G networks	Journal, 4/1/2019
19	Mrs.C.P.GOWTHAMI	International Journal of Innovative Research in Computer and Communication Engineering	Modified ACO Cluster based Key Management Routing Mechanism for WSN Security	Journal, 4/1/2019
		FDP	Discrete time signal processing	Saveetha Engineering college, 03-05-2019 to 10-05-2019
20	Mr.S.KARTHICK	International journal of innovative research in science, engineering and technology, vol 8, issue 3	Power theft detection and power energy saving by using Internet of Things	Journal, 3/1/2019
		International journal of innovative research in computer and communiction engineering volume 7, Issue 4	Edge computing connectivity maximization for narrow band IOT system with NOMA for 5G networks	Journal, 4/1/2019

STUDENTS INDUSTRIAL VISIT

Our department II year students was accompanied to an industrial visit to Regional Telecom Center BSNL, Maraimalai Nagar, Chennai on 15.02.2019

Our department III year students was accompanied to an industrial visit to Pyro-Ferus Technology Solutions, Ramapuram, Chennai on 19.02.2019

Our department II year students was accompanied to an industrial visit to VI Microsystems pvt.Ltd - Perungudi, Chennai on 09.03.2019



"keep your eyes on the stars, and your feet on the ground"

GUEST LECTURES / SEMINARS

Our department proudly conducted one day guest lecture on "Embedded Systems in Real Time Applications" 21.01.2019 by Mr.M.Manoj, Prolific Systems & Technology Pvt. Ltd., Chennai.

Our department proudly conducted one day guest lecture on "Design of Smart Systems Using IoT & Data Analytics" 14.02.2019 by Mr. Srinivasan Thanukrishnan, Founder & CEO, Glosys Technology Solutions Pvt. Ltd., Chennai.



WORKSHOP/SEMINAR/SYMPOSIUM

Our college proudly conducted one day symposium GRT TEXPO 2019 "7th national level technical symposium" on 9th February 2019.



"Don't watch the clock, do watch it does keep going"

STUDENTS SYMPOSIUM / CONFERENCE/ WORKSHOP/SPORTS

Name of the student	Sem/ Year	Name of the event / Topics	Prize	Month/ year	Organizing Institution
PRATHIMA.M	VI / III	Technical Quiz	Participation	March 2019	SRI Krishna Devaraya University College of Engineering & Technology, Ananthapuramu
Meenakshi.K.A	VI / III	Poster Presentation	Participation	March 2019	SRI Krishna Devaraya University College of Engineering & Technology, Ananthapuramu
Anitha.D	VI / III	Symposium - Smart Multimedia And Applications	First	13/03/2019 & 14/03/2019	SRI Krishna Devaraya University College of Engineering & Technology, Ananthapuramu
Ramya Teja.S	VI / III	Symposium - Smart Multime- dia And Appli- cations	First	13/03/2019 & 14/03/2019	SRI Krishna Devaraya University College of Engineering & Technology, Ananthapuramu
Saikumar.M	VI / III	Symposium - Fourth Genera- tion Wireless	Third	13/03/2019 & 14/03/2019	SRI Krishna Devaraya University College of Engineering & Technology, Ananthapuramu
Vignesh.P	VI / III	Symposium - Fourth Genera- tion Wireless	Third	13/03/2019 & 14/03/2019	SRI Krishna Deva- raya University College of Engineering & Technology, Ananthapuramu
Sharmila.S.R	VIII / IV	Symposium - Renewable / Sus- tainable Energy And Smart Grids	Participation	13/03/2019 & 14/03/2019	SRI Krishna Devaraya University College of Engineering & Technology, Ananthapuramu

Pragathi S	VI/III	Workshop	Amazon Web Service Workshop	21/2/2019 & 22/2/2019	Prathyusha Engineering college, Chennai with Software Technical clubs
Ashwini M	VI / III	sports	Winner in Throwball, 11 th annual sports meet	Feb, 2019	GRT IET, TIRUTTANI.
Preetha S	VIII / IV	sports	Runner in Badmin- ton(Women) in National Sports Meet	Feb, 2019	GRT IET, TIRUTTANI.
Sowmithra D	VIII / IV	sports	Winner in Kho-Kho (Women) in National Sports Meet	Feb, 2019	GRT IET, TIRUTTANI.
Jyothi Sai B	IV / II	Technical Quiz	First	13/03/2019 & 14/03/2019	SRI Krishna Devaraya University College of Engineering & Technology, Ananthapuramu
Jaya priya.T.G	II/I	Pic Talk	First	13/03/2019 & 14/03/2019	SRI Krishna Devaraya University College of Engineering & Technology, Ananthapuramu
Sai Supraja.R.K	II/I	Pic Talk	Third	13/03/2019 & 14/03/2019	SRI Krishna Devaraya University College of Engineering & Technology, Ananthapuramu
Mandalam Chitralekha	II/I	Poster Presentation	Second	13/03/2019 & 14/03/2019	SRI Krishna Devaraya University College of Engineering & Technology, Ananthapuramu
Mohan.B	VIII / IV	IETE Zonal Seminar / Smart Engineering for Sustainable Development	Participation	7/2/2019	The Institute of Electronics and Telecommunication Engineers, Chennai
Vignesh.D	IV / II	Symposium	Third	9/2/2019	GRTIET, Tiruttani

Damini.S.L	IV / II	sports / Badminton	Runner	Feb, 2019	GRTIET, Tiruttani
Damini.S.L	IV / II	sports / Kho Kho	Winner	Feb, 2019	GRTIET, Tiruttani
Damini.S.L	.S.L IV / II sports / 400 meters		Winner	Feb, 2019	GRTIET, Tiruttani
Damini.S.L	IV / II	sports / 4x 400 meters Relay	Winner	Feb, 2019	GRTIET, Tiruttani
Kalainila	IV / II	Graphical Test - 3D Unity	Participation	21/02/2019 & 22/02/2019	Prathyusha engineering College, Chennai
Monisha.S	IV / II	Graphical Test - 3D Unity	Participation	21/02/2019 & 22/02/2019	Prathyusha engineering College, Chennai
Pragathi.S	IV / II	Workshop - Amazon Web Service	Participation	21/02/2019 & 22/02/2019	Prathyusha engineering College, Chennai
Damini.S.L	IV / II	Zonal Athletics Meet - 200 meters running	Second	2019	Anna University, chennai
Damini.S.L	IV / II	Zonal Athletics Meet - 400 meters running	Second	2019	Anna University, chennai
Preethi Rebbacal	VIII / IV	Symposium - Renewable / Sustain- able Energy And Smart Grids	Participation	13/03/2019 & 14/03/2019	SRI Krishna Devaraya University College of Engineering & Technology, Ananthapuramu
Damini.S.L	IV / II sports / 100 meters Running		Winner	Feb, 2019	GRTIET, Tiruttani
Damini.S.L	IV / II	sports / 200 meters Running	Winner	Feb, 2019	GRTIET, Tiruttani
Nallareddy Keerthireddy	VI/III	Symposium - Paper Presentation	Third	22/3/2019 & 24/3/2019	KMCT College of Engineering, Calicut, Kerala

Jayalakshmi.E	VI/III	Symposium - Paper Presentation	Third	22/3/2019 & 24/3/2019	KMCT College of Engineering, Calicut, Kerala
Harshitha.S	VI/III	Symposium - Paper Presentation	Third	22/3/2019 & 24/3/2019	KMCT College of Engineering, Calicut, Kerala
Saikumar.M	VI/III	Symposium - Paper Presentation	Participation	22/3/2019 & 24/3/2019	KMCT College of Engineering, Calicut, Kerala
Ravi.C.M	VI/III	Symposium - Paper Presentation	Participation	22/3/2019 & 24/3/2019	KMCT College of Engineering, Calicut, Kerala
Vignesh.P	VI/III	Symposium - Paper Presentation	Participation	22/3/2019 & 24/3/2019	KMCT College of Engineering, Calicut, Kerala



SOCIETY OF ECE

PRESIDENT: Ms. SIRASANAGANDLA KAVYA-IV YEAR VICE PRESIDENT: Mr. NARESH KUMAR.S - IV YEAR SECRETARY: Mr. RUKESH KUMAR.A - III YEAR JOIINT SECRETARY: Ms. SOUNDHARYA.V- III YEAR

Dr.C.VISWANATHAN

Dr.K.GUNASEKARAN

Dr.P.SIVAKUMAR

Dr.P.SIVAKUMAR

Dr.S.A.YUVARAJ

Mr.V.SORNAGOPAL

Mr.S.SENTHILKUMAR

Mrs.R.BAMALAKSHMI

Mr.C.E.MOHANKUMAR

Mr.A.S.LOGANATHAN

Mr.P.G.GOPINATH

Mr.S.NIJANDHAN

Mr.K.BALAJI

Mr.K.NARESHKUMAR

Mr.C.AUGUSTIN

Mr.D.SARATHY

Ms.R.NATHEA

Mr.S.KARTHICK

Ms.GOWTHAMI

Ms.K.PERIYARSELVAM

Mr.M.KAMESH

Ms.U.SANDHYA

Mr.S.V.DHARANIKUMAR

Mrs.PORKODI Ms.J.FEBINA

WS.J.FEBINA

Mr.TAMIZINIYAN

PROFESSIONAL MEMBERS &
ACADEMIC PARTNERS

. IETE
. CISCO NETWORKING ACADEMY







TOPPERS LIST

S.NO	NAME OF THE STUDENTS	SEM/YEAR	RANK	CGPA					
	II YEAR								
1	NITHYASREE.S	IV/II	1	8.38					
2	JYOTHI SAI.B	IV/II	2	8.04					
3	HARISH.R	IV/II	3	7.88					
4	KALPANA.D	IV/II	3	7.88					
5	ARCHANA.K	IV/II	4	7.58					
6	KALPANA.M	IV/II	4	7.58					
		III YEAR	'						
1	RAMYA TEJA S	VI/III	1	8.75					
2	ANITHA D	VI/III	2	8.63					
3	PRATHIMA M	VI/III	3	8.50					
4	SAIKUMAR M	VI/III	4	8.42					
5	SARATHADEVI M	VI/III	5	8.38					
6	SUJITHA N	VI/III	6	8.25					
7	MAHALAKSHMI L	VI/III	6	8.13					
8	SIVAPRIYA S	VI/III	7	8.13					
		IV YEAR							
1	CHANDHINI A	VIII/IV	1	9.17					
2	ARSHIYA AFREEN A	VIII/IV	2	9.00					
3	BHARATHI S	VIII/IV	3	8.83					
4	SHARMILA S R	VIII/IV	3	8.83					
5	NITHYALAKSHMI S	VIII/IV	4	8.67					
6	RUSHIKA R	VIII/IV	4	8.67					
7	SAI CHANDANA M	VIII/IV	4	8.67					
8	THAMARAISELVI M	VIII/IV	4	8.67					
9	VENIKA G S	VIII/IV	4	8.67					
10	YAMINI S	VIII/IV	4	8.67					
11	BHAVANA PRIYA S	VIII/IV	5	8.50					
12	VINITHA.T	VIII/IV	5	8.50					

Editorial Team's Epistle

We are indeed of good cheer to publish the first issue of our newsletter Meticulous efforts have been put in to congregate the happenings in the department. We hope this newsletter would serve to be an informative one. We take pleasure in thanking our Management, Principal, HOD, faculty and students of Electronics and Communication Engineering for the kind support and encouragement. Feedback and suggestions are welcomed . For further Articles, Activities please



Editorial Board Members

Dr. P.SIVAKUMAR

Dr.C. VISWANATHAN