



# **Dhirajlal Gandhi College of Technology**



**Department of Electronics and  
Communication Engineering**

**News Letter  
(Academic Year 2020-21)**

# Dhirajlal Gandhi College of Technology



**Chairman:**  
Shri. Dhirajlal A Gandhi



**Secretary :**  
Smt. Archana Manojkumar



**Principal:**  
Dr. A. Selvaraj

## Department of Electronics and Communication Engineering



**HOD/ECE :**  
Dr. S. Venkatesh, M.E., Ph.D

Prepared by  
Mr. SARATH KUMAR.K AP/ECE

## **Department of Electronics & Communication Engineering**

The objective of the ECE department is to foster the students to cultivate academic integrity with professional and social responsibility to meet the exponentially growing requirement of practical design engineers in the country and abroad. The department has highly qualified, experienced and dedicated faculty members who have a strong commitment towards providing quality engineering education with high emphasis of electronics design aspects and to bring out quality research experience to the students in order to help them excel in current competitive scenario. The mission of the department is to impart quality education to the students, an education that includes the skills of innovation, problem solving, consensus-building and those of entrepreneurship, so that they meet the challenging requirements of the global market with competence in ethical and moral reasoning.

### **Vision**

To be globally recognized for providing value based engineering education and research in the field of Electronics and Communication Engineering.

### **Mission**

- To impart quality education to students that includes skills of innovation, problem solving, teamwork and techno entrepreneurship.
- To craft professionals to meet the challenging requirements of global market and provide solutions to societal problems with ethical and moral reasoning.
- To establish Centre of Excellence in emerging areas in the field of Electronics and Communication Engineering.
- To undertake Collaborative work with industry to provide solutions for technical challenges.

*Knowledge transferred is Knowledge gained*



## Department of Electronics and Communication

*-Place for freedom of creativity and innovation*

## Webinar:

A **webinar** was conducted through the Cisco webex meeting, titled **"Communication skills for Successful Placement"** for **ECE** Department students by the resource person **Ms. Poorvaja Thyagarajan** on 19.06.2020 Friday, between 04.00 PM to 05.00 PM

## Webinar:

**Department of ECE**, along with Alumni Cell of DGCT, organized an **online Webinar** on **"PLAN YOUR WAY AHEAD"** on 07th November, 2020 from 5.00pm to 6.00pm. Chief Guest for the program was **Mr.S.Santosh**, Founder, Santosh Selva Academy, Salem. The program was coordinated by Mr.R.Prabhakaran, Assistant Professor, Department of ECE. Final year students of all departments attended the program and gained valuable insight on goal setting, career planning and execution of the same.

The poster is for a webinar titled "Plan Your Way Ahead" for 2021 Batch Students. It is organized by the Department of Electronics & Communication Engineering at Dhirajlal Gandhi College of Technology, Salem. The speaker is Mr. Santosh S., M.Tech, Founder of Santosh Selva Academy, Salem. The event is scheduled for 07th November, 2020, from 5:00 pm to 6:00 pm. The poster lists the presence of Shri. Shrinaj A. Gandhi (Chairman DGCT), Shri. D. Manojkumar (Vice Chairman DGCT), Shri. Archana Manojkumar (Secretary DGCT), and Dr. S. Venkatesh (Vice-Principal H&E Cell). The moderator is Mr. R. Prabhakar. The poster also mentions consistent best placements in 6 consecutive years with 12 Labs, 1352+ students, and 325+ placements. Admission contact numbers are 95000 00651 and 94899 00130.

**NPTEL COURSE:**

**The Embedded System Design** is an AICTE approved 12 week course (**Jan 2020 – APR 2020**) conducted in NPTEL, which provides a gateway to intern with TI. The course is power-packed with practical learning and hands-on modules on hardware designing that will equip with the necessary fundamentals to develop and design embedded systems for diverse applications through a multi-disciplinary and practical learning approach, thus creating own future with TI internship. To provide hands-on experience **MSP430 Micro-controller Evaluation Kit** were given to the registered candidates.

In our college, **29 students with 5 faculty members** registered this course and undergone weekly assignment and completed successfully. The course requires the students to be hands on using the **MSP430 Lunchbox kits**. Since the students registered for the MooC – Embedded Design Systems on NPTEL Platform has nominated the faculty members as the Authorized Incharge to receive the MSP430 Lunch Box Kit. Upon submitting all the requisite details **29 MSP430 Lunchbox kits were received.**



As committed by TI, they provide the shield to the Faculty in charge who has supported the students to enroll in the **NPTEL –TI Embedded System Design MooC Course** and in exam. **Dr.S.Venkatesh, Vice-Principal & HoD/ECE** and **Ms.K.R.Deepa, AP/ECE** received shields as an appreciation for encouraging the students' participation in the course.



## Grants Received:

The Research Team of Communication & Networks under the guidance of research head **Dr.S.Venkatesh Vice-Principal & HoD/ECE** applied a proposal titled **"Modernisation of Advanced Communication Laboratory"** to AICTE during the Academic year 2019-20. It got approved & sanctioned on **9/6/2020** under the **Modernization and Removal of obsolescence Rural (MODROB-Rural)** scheme as Grant aid payment of **Rs 1694000/-**.

Date: 09/06/2020  
Page No: 1/1

All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)  
Nelson Mandela Marg, Vasant Kunj, New Delhi - 110070 Website: [www.aicte-india.org](http://www.aicte-india.org)

**MODROB-RURAL - Sanction Letter**

**To:**  
The Drawing and Disbursing Officer,  
All India Council for  
Technical Education, Nelson  
Mandela Marg,  
Vasant Kunj,  
New Delhi - 110070

**Sub:** Release of a sum of Rs 1694000/- (Rupees Sixteen Lakh Ninety Four Thousand Only) as Grant-in-Aid under the Modernization and Removal of Obsolescence Rural (MODROB-Rural) for the year 2019-20 payable during the current financial year 2019-20.

**Re:**  
With reference to the proposal submitted by the institute, this is to convey that the sanction of the Council for payment of Rs. 1694000/- (Rupees Sixteen Lakh Ninety Four Thousand Only) as Grant-in-Aid under the Modernization and Removal of Obsolescence Rural (MODROB-Rural) scheme, as per details given below:

1. Name and address of the Beneficiary Institution.	Director/Principal/Registrar SUBRAMANIAM COLLEGE OF TECHNOLOGY, SIKKANDAMPATTY, OPPPOSITE TO ADIPURAI, SIKKANDAMPATTY, Tamil Nadu		
2. Title of proposal.	Modernization of Advanced Communication Laboratory		
3. Name of Coordinator.	Dr. VENKATESH S		
4. Duration of the project.	2 years		
4. Total Grant-in-aid sanctioned.	Total Rs. 1694000/-	Non-Recurring (50%) Rs. 847000/-	Recurring (50%) Rs. 847000/-
5. Amount to be released during the year 2019-20.	1 <sup>st</sup> instalment Rs. 1155333/-	Non-Recurring (50%) Rs. 577666/-	Recurring (50%) Rs. 577666/-
6. Sanctioned grant-in-aid is debitable to	Major Head 603.14(a) (Plan Head)		

1. The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the Grant-in-Aid bill and shall be disbursed to and credited to the account of Director/Principal/Registrar of the Institute through RTGS/PNC.

2. This Grant-in-Aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

**The instructions/guidelines to be followed by University/Institution**

1. Release of funds

a. The Principal/ Director of the Institute and the Coordinator of the project are hereby requested to verify the correctness of the order mentioned below account/ RTGS details submitted by them along with the Proposal, in which the grant is being released.

Page 1



**FACULTY ACHIEVEMENTS**

**Faculty achievements for the year 2020-21**

S.No	Description	Total
1	International Journal	02
2	National Conference	06
3	FDP	20
4	Seminar	06
5	Workshop	05
6	Webinar	16
7	NPTEL Online Courses	13
8	STTP	08
9	E-Quiz	03
Total		79

# DGCT ECE NEWS LETTER (Academic Year 2020-21)

## Faculty Achievements list:

S.No	Name	Desig	Program Attended	Venue	Date
1	Dr.S.Venkatesh	HOD	ICA5NT 2020	Velammal Institute of Tech	06/11/2020 & 07/11/2020
2	Mr.B.Prasad	AP	AICTE training and Learning (ATAL) Academy - FDP on Sensor technology	NIT, Jamshedpur	1/10/2020 to 5/10/2020
			AICTE training and Learning (ATAL) Academy - FDP on Photonics	Model Engineering College, Ernakulam	19/10/2020 to 23/10/2020
			NPTEL course - Microelectronics devices	IIT Madras	20/12/2020
			AICTE FDP on Microelectronics devices	IIT Madras	20/12/2021
			Recent Trends in Photonics	Dayananda Sagar University, Bengaluru	30/06/2020 to 02/07/2020
			International Online FDP on MEMS based Sensors and Actuators for biomedical applications	K L Deemed to be University, Vijayawada	02/11/2020 to 7/11/2020
			<b>PAPER TITLE</b> Design and Analysis of CMOS Low power noise amplifier based folded microstrip patch antenna for wide band application	<b>Journal Name</b> International Journal of Modern Trends in Engineering & Research	9/9/2020
			Requisite Monitoring Sensors for Algae Cultivation System - A Review	Seybold Report Journal [SCOPUS]	Seybold, ISSN 1533-9211, Volume 15, Issue 9, 2020

## DGCT ECE NEWS LETTER (Academic Year 2020-21)

S.No	Name	Desig	Program Attended	Venue	Date
3	Mr.N.Vetriselvan	AP	Certificate of energy literacy - Learn to Design your own Solar Home System.	DGCT	12/8/2020
			AICTE training and Learning (ATAL) Academy - FDP on sensor technology	Gnanamani College of Technology	5/10/2020 to 9/10/2020
			AICTE training and Learning (ATAL) Academy - FDP on IOT	Indian Institute of Information and technology	23/11/2020 to 27/11/2020
			NPTEL course - Microelectronics devices	IIT madras	20/12/2020
			AICTE FDP on Microelectronics devices	IIT madras	20/12/2021
4	Ms.K.R.Deepa	AP	Webinar - Design Thinking and Innovation	Kumaraguru College of Technology	3/8/2020
			Webinar - Renewable Energy for sustainable development	ICAR	30/08/2020
			Webinar - CII IWN Women Leaderpreneurship Conclave	CII IT Internal Cell	16/10/2020
			STTP - Sponsored by AICTE, "Machine Learning and its Applications (Phase I)"	Lendi Institute of Engineering & Technology (Autonomous)	02/11/2020 to 07/11/2020
			NPTEL - Introduction to Embedded System	NPTEL	Jul-Dec 2020
			FDP - Introduction to Embedded System	NPTEL	Jul-Dec 2020

## DGCT ECE NEWS LETTER (Academic Year 2020-21)

S.No	Name	Desig	Program Attended	Venue	Date
5	Mr.S.Maragatharaj	AP	FDP - Quantum Computing	Government Engineering College, Tangore	01/06/2020 - 05/06/2020
			Simulation of Renewable Energy Enginnering	IIT - Rourkey	23/10/2020 to 27/10/2020
			Robotics Assistive Technology	NIT,DURGAP UR	23/11/2020 to 28/11/2020
			STTP on Research Challenges and application of IOT in Smart Agriculture	Konghnadu college Engg & Tech	17/11/2020 to 22/11/2020
6	Mr.V.Arun	AP	FDP on Applied for Robotics	Online Course	Waiting for Approval
7	Mr.R.Prabhakar	AP	Model Based Design & Teaching with MATLAB	Chennai Institute of Technology	25/06/2020 & 26/06/2020
			An Insight into Mobility - webinar	Online	17/07/2020
			Engineer your thoughts for IT Industry	Online	09/07/ 2020
			Skillset for Enhancing Employability	Online	30/07/2020
			NPTEL -Microprocessor and Microcontroller	Online	28/07/2020
			Nptel- Introduton to phython	Online	Jul-Dec 2020
8	Mr.K.Sarath kumar	AP	NPTEL - Introduction to Wireless and Cellular Communication	NPTEL	Jul-Dec 2020
			ICA5NT 2020	Velammal Institute of Tech	06/11/2020 & 07/11/2020
			FDP on Design of Characterization of Microwave components and Antennas	ATAL	16/11/2020 to 21/11/2020
			FDP on Towards 5G with IoT	ATAL	23/11/2020 to 27/11/2020

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S.No	Name	Desig	Program Attended	Venue	Date
9	Ms.R.Vithya	AP	Workshop - TCS ion Industry Honour	TCS	15/06/2020
			ICA5NT 2020	Velammal Institute of Tech	06/11/2020 & 07/11/2020
			FDP on Design of Characterization of Microwave components and Antennas	ATAL	16/11/2020 to 21/11/2020
			Atal FDP on 3D Printing	ATAL	9/11/2020
10	Mr.A.Mohamed Yasar	AP	Webinar - Antenna Design using HFSS	Eshwari Engineering college	6/29/2020
			Antenna Design through Simulation using taraNG:19.1	Mahendra College of Engineering	6/29/2020
			FDP on Design of Characterization of Microwave components and Antennas	ATAL	16/11/2020 to 21/11/2020
			Ethical Hacking Advanced	UDEMY	NOV - APR
			ICA5NT 2020	Velammal Institute of Tech	06/11/2020 & 07/11/2020
11	Mr.G.Vimal	AP	ICA5NT 2020	Velammal Institute of Tech	06/11/2020 & 07/11/2020
12	Mr.N.R.Sivaraaj	AP	NPTEL:Introduction to Embedded System Design FDP	Online Course	20/12/2020
			NPTEL:Digital VLSI Testing	Online Course	20/12/2020
			Workshop on Ideation to Patenting -A walkthrouh - DGCT-ISTE	Online Course	8/7/2020 to 12/7/2020

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S.No	Name	Desig	Program Attended	Venue	Date
13	Ms.P.Bhuvaneshwari	AP	Ideation to Patenting - A walkthrough	DGCT	08/07/2020 to 12/07/2020
			Webinar - Design Thinking and Innovation	Kumaraguru College of Technology	3/8/2020
			Webinar - Renewable Energy for sustainable development	ICAR	30/08/2020
			STTP - Sponsored by AICTE, "Machine Learning and its Applications (Phase I)"	Lendi Institute of Engineering & Technology (Autonomous)	02/11/2020 to 07/11/2020
			NPTEL- Introduction to Embedded System	NPTEL	Jul-Dec 2020
14	Dr.D.Rajeswari	AP	STTP - Sponsored by AICTE, "Science and Applications"	Rajarshi Shahu College of Engg, Pune	26/10/2020 to 31/10/2020
			ICONN2021 - International Conference Registered	SRM	01/02/2021 to 03/02/2021
			STTP - Sponsored by AICTE, "Embedding soft skills technical Education-its Impact and effectiveness on employability"	GRG Polytechnic College, Kuppepalayam, Coimbatore	16/11/2020 to 21/11/2020
15	Ms.Suganya Devi	AP	FDP - Techniques and application in Teaching Engineering Mathematics	K.Ramakrishnan College of Engineering	10/06/2020 & 11/06/2020
			Webinar on Subordination and Superordination Preservind Integral Operators	Babes - Bolyai University, Romania	5/11/2020
			"Calculus of several Variables" in NPTEL	Online Course	Sep to Dec 2020

## DGCT ECE NEWS LETTER (Academic Year 2020-21)

S.No	Name	Desig	Program Attended	Venue	Date
16	Ms.S.Nalini	AP	FDP - Techniques and application in Teaching Engineering Mathematics	K.Ramakrishnan College of Engineering	10/06/2020 & 11/06/2020
			FDP - ICT Tools for Effective Teaching & Learning	Murugappa Polytechnic College	08/06/2020 to 14/06/2020
			FDP on "Awareness program about Academic services at MHRD-INFLIBNET"	Government Arts College, Salem-7	6/26/2020
			Completed a short course on "Learn to Design Your Own Solar Home System"	DGCT	11/8/2020
			webinar on "Excellence PEER Review system:How to be an effective peer reviewer"	Taylor & Francis Reviewer training network	18/09/2020
			STTP - Sponsored by AICTE, "Embedding soft skills technical Education-its Impact and effectiveness on employability"	GRG Polytechnic College, Kuppepalayam, Coimbatore	16/11/2020 to 21/11/2020
			webinar on "Complex Analysis:Subordination and Superordination-Preserving Integral Operators"	Theivanai Ammal College for Women, Villupuram	5/11/2020
			Mathematical Model Using Maple	CIT,Coimbatore	27/12/2020
			"Calculus of several Variables" in NPTEL	Online Course	Sep to Dec 2020
17	Mrs.A.Hazeera Banu	AP	Workspace Awareness - Culture, Gender and Personality	NSIT	3/6/2020
			Webinar on "Outcome Based Education"	Annapoorna Engg College	15/09/2020
			Webinar on "6 Ways to get your teenage students ready to speak and give them the confidence to do it"	Pearson English	19/11/2020
			Webinar on" Impactful teaching with english for specific academic purposes"	Pearson English	19/11/2021
			STTP - Sponsored by AICTE, "Embedding soft skills technical Education-its Impact and effectiveness on employability"	GRG Polytechnic College, Coimbatore	16/11/2020 to 21/11/2020

## DGCT ECE NEWS LETTER (Academic Year 2020-21)

S.No	Name	Desi g	Program Attended	Venue	Date
18	Mr.K.Gopinath	AP	E-Quiz on "Environmental Protection & Biodiversity conservation"	Acharya Nagarjuna University,AP	08/08/2020 to 12/08/2020
			E-Quiz on "Chemistry in Human Welfare"	Sourastra college, Madurai	11/7/2020
			"Online Competitive Exam Coaching For Chemistry"	DR. R .K. SHANMUGAM COLLEGE OF ARTS AND SCIENCE	13/07/2020 to 17/07/2020
			E-QUIZ on "GENERAL CHEMISTRY "	GOVERNMENT POLYTECHNIC COLLEGE-DPI	4/7/2020 to 8/7/2020.
			Learn to Design your own Solar Home System	Energy Swaraj Foundation	15/08/2020
			wellness webinar on Yoga-Connecting Body & Mind	S.A.Engg College	28/08/2020



**STUDENTS ACHIEVEMENTS**

**Students achievements for the year 2020-21**

<b>S. No</b>	<b>Description</b>	<b>Total</b>
<b>1</b>	<b>E - Yantra Robotics Compation</b>	<b>01</b>
<b>2</b>	<b>Sakthi Microprocessor Challege</b>	<b>03</b>
<b>3</b>	<b>IEEE</b>	<b>04</b>
<b>4</b>	<b>Webinar</b>	<b>01</b>
<b>5</b>	<b>Girl script</b>	<b>02</b>
<b>6</b>	<b>TI</b>	<b>01</b>
<b>7</b>	<b>Rotary Club</b>	<b>01</b>
<b>8</b>	<b>Chhatra Vishwakarma Award 2020</b>	<b>01</b>
<b>Total</b>		<b>14</b>

## DGCT ECE NEWS LETTER (Academic Year 2020-21)

S.NO	DATE	NAME OF THE STUDENT	TITLE	EVENT NAME	NAME OF THE COLLEGE	PRESENTED/ PARTICIPATED/ AWARDED
1.	2020-2021	M.J.KASHINATH R.GOKUL M.MITHUN SANJAY S.HARIKRISHNAN	---	E-YANTRA ROBOTICS COMPETITION		COMPLETED TASK 1.2
2.	2020-2021	R.GOKUL M.J.KASHINATH M.MITHUN SANJAY R.AARTHI N.DEEPADHARSHINI	IOT BASED GAS LEAKAGE DETECTION SYSTEM WITH AUTOMATIC BOOKING	SAKTHI MICROPROCESSOR CHALLENGE		SUBMITTED PROPOSAL
3.	2020-2021	S.SWETHA V.NAGASOUNDARYA NANDHANAMAHESHWARI P.SOWNDARYA N.PRIYANKA	VEHICLE ANTI-THEFT DETECTION SYSTEM	SAKTHI MICROPROCESSOR CHALLENGE		SUBMITTED PROPOSAL
4.	2020-2021	S.HARIKRISHNAN M.HARIKRISHNAN R.DEEPAK RAJ P.ISWARYA T.MEERA	ADAPTIVE SMART IRRIGATION SYSTEM USING IOT	SAKTHI MICROPROCESSOR CHALLENGE		SUBMITTED PROPOSAL
5.	10.8.2020	S.DEVIPRIYA	5G CHALLENGES AND ENABLING TECHNOLOGIES	IEEE	KUMARAGURU COLLEGE OF TECHNOLOGY	PARTICIPATED
6.	10.8.2020 - 14.8.2020	S.DEVIPRIYA	FUTURE ANTENNA TECHNOLOGIES	IEEE	KUMARAGURU COLLEGE OF TECHNOLOGY	PARTICIPATED

## DGCT ECE NEWS LETTER (Academic Year 2020-21)

7.	11.8.2020	S.DEVIPRIYA	RECENT TRENDS IN DIELECTRIC RESONATOR ANTENNAS FOR WIRELESS APPLICATIONS	IEEE	KUMARAGURU COLLEGE OF TECHNOLOGY	PARTICIPATED
8.	13.8.2020	S.DEVIPRIYA	FULL DUPLEX ANTENNA: DESIGN AND CHALLENGES	IEEE	KUMARAGURU COLLEGE OF TECHNOLOGY	PARTICIPATED
9.	26.8.2020	B.MYTHILY S.DEVIPRIYA	ANALYSING AND VISUALISING IOT DATA WITH THINGSPEAK	WEBINAR	KUMARAGURU COLLEGE OF TECHNOLOGY	PARTICIPATED
10.	2020-2021	R.GOKUL M.J.KASHINATH M.MITHUN SANJAY R.AARTHI N.DEEPADHARSHINI	IOT BASED GAS LEAKAGE DETECTION SYSTEM WITH AUTOMATIC BOOKING	CHHATRA VISHWAKARMA AWARD 2020		PARTICIPATED IN REGIONAL FINALS
11.	7.8.2020	B.MYTHILY	DIGITAL COMMUNICATION	QUIZ	GIRLSCRIPIT FOUNDATION	PARTICIPATED
12.	2020	M.J.KASHINATH	TI EMBEDDED SYSTEM DESIGN USING MSP430™ MCU MOOC	TI	TEXAS INSTRUMENTS	PARTICIPATED
13.	12.9.2020 & 13.9.2020	M.J.KASHINATH	VITHTHAGAM E-RYLA	ROTARY CLUB	ROTARY CLUB OF SALEM WINGS	PARTICIPATED
14.	11.7.2020	S.DEVIPRIYA	ADVANCE JAVA FRAMEWORK-SPRING BOOT	GIRLSCRIPIT	GIRLSCRIPIT	PARTICIPATED

**Thank You**

***Do engineering Enjoy Engineering***