



# PRAGATI ENGINEERING COLLEGE

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(Approved by AICTE, Permanently Affiliated to JNTUK, KAKINADA)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## Research and Development A.Y 2020-21

### PATENT PUBLISHED

S.No	Title of the invention	Publication date	Publication /Application number	Name of the faculty
1	Design and Development of Planar Microstrip antenna for wireless sensor network	04/09/20	202041034126	Dr. D NATARAJ
2	Design and Development of Planar Microstrip antenna for wireless sensor network	04/09/20	202041034126	Mr. T VISHNU MURTHY
3	Design and Development of Planar Microstrip antenna for wireless sensor network	04/09/20	202041034126	Mrs. G V UJWALA
4	A Smart Corrosion Monitoring system for Oil Pipeline system	09/10/2020	202011032880	MR. CH.LAKSHMI NARAYANA
5	A Smart Oil well monitoring system in Real time through Lora and IoT	23/10/20	202011042993	MR. CH.LAKSHMI NARAYANA
6	Coronavirus Detection 5-G Mobile App: An App Which Enables A Mobile Phone To Detect The Coronavirus	03/07/20	202041025201	Dr. D NATARAJ
7	Coronavirus Detection 5-G Mobile App: An App Which Enables A Mobile Phone To Detect The Coronavirus	03/07/20	202041025201	Mr. T VISHNU MURTHY
8	Coronavirus Detection 5-G Mobile App: An App Which	03/07/20	202041025201	Mrs. G V UJWALA

	Enables A Mobile Phone To Detect The Coronavirus			
9	Portable Water Purity Monitoring System and Method Thereof	31/07/2020	202041031038	Dr. D Nataraj

### CONFERENCES

S.NO	Name of the faculty	Title of the Paper	Month & Year	Name of the Conference
1.	Dr.D Nataraj	Impact of SRR on Defected Metallic Antenna for Biomedical and Wireless Communications	28/11/20	NECACAC 2020
2	Mr.Ch.Lakshmi Narayana	Improvement of QOS by Optimizing 2.4GHz RF network Parameters for Oil pipeline Mangement	27/11/20	ICICCD 2020
3	Mrs. G Srilakshmi	Digital transformation during pandemic	30/12/20	WIRCICA

### JOURNAL PUBLICATIONS

S.No	Name of the faculty	Title of the Paper	Name of the Journal	VOLUME &ISSN No	Month & Year
1.	Dr.D Nataraj	An 8x1 Sierpinski carpet Fractal linear Array Antenna Design for Multiband Application	JUSST	Vol.22 Issue.11	Nov 2020

2	B.Vasantha Lakshmi	A Review of Digital Image processing agriculture general applications	UGC care Group I journal	volume 10,& issue 8	Aug 2020
3	Dr. Subodh Panda	Designing and modelling of a portable system of detection of covid-19	SHODH SARITA	Vol.7 ISSUE27	July 2020
4	Dr.D Nagesh				
5	Dr. A.Srinivas				
6	Dr.Subodh Panda	A review of digital image processing agriculture general application	DogoRangsang Research Journal	Vol.10	Aug 2020
7	Dr. A.Srinivas				
8	Dr.Subodh panda	System designing on smart operation on for predictive maintenance	TEST ENGERRING and MANAGEME NT	-	Aug 2020
9	Dr D Nagesh	Design and Implementation of Low Power 128-bit AES pipelined encryption using clock gating on 28 nm FPGA	Advances and Applications in Mathematical Sciences	-	Mili Publishers
10	Mr V Prasanth				
11	Dr. A.Srinivas	Fuzzy System Implementation on Sustainable heat Recovery in process plant	TATHOPI International Journal	ISSN 2320-0693	-
12	Dr.Subodh panda	Fuzzy System Implementation on Sustainable heat Recovery in process plant	TATHOPI International Journal	ISSN 2320-0693	

13	Mrs. G Srilakshmi	Speech enhancement with python using tensor flow algorithm	The international journal of analytical and experimental modal analysis	-	Oct 2020
14	Mrs.B S S Vidya	A review of Digital Imaging Processing Agriculture General Applications	Dogo Rangsang Research Journal	Vol.-10,Issue-08	Aug 2020
15	Mrs.B.Ramya Banu	XOR Based Carry Select Adder for Area and Delay Minimization Using GDI Technology	International Journal of Innovative Science and Research Technology	Volume 5, Issue 6	June 2020

### BOOK CHAPTER PUBLICATION

S.No	Published a Book chapter	Date of publication	Name of the faculty
1	Advance in smart grid technology	August 2020	Dr.Subodh Panda
2.	Innovation in Bio-Inspired computing and application	July2020	

### FUNDING PROPOSAL APPLIED

1. Dr.Subodh Panda, Ministry of Mines(Satyabhama Portal) File NO.SNTMOM/374/2020  
Title-Intelligent System Designing for Optimizing Fuel Utilization through Minimizing Losses on Enhancing Efficiency of Power Plant.