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News Letter

ece SYNCOM

A VOICE OF ELECTRONICS AND COMMUNICATION ENGINEERING

EAST INDIA TECHNOLOGIES

Tech Mahindra

WINDCARE INDIA PVT. LTD

RAMTECH

C T L

KITS
KKR & KSR Institute of Technology & Sciences
(Approved by AICTE New Delhi, Affiliated to JNTU Kakinada, Accredited by NAAC with "A" Grade)
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VISION , MISSION &PEO'S

Vision

Developing highly Qualitative, Technically Competent and Socially Responsible Engineers.

Mission

To provide quality education in the domain of Electronics and Communication Engineering through

- Enriched curriculum for addressing the needs of Industry.
- Effective teaching learning processes through congenial environment.
- Gaining contemporary knowledge through research, development, curricular, co and extra-curricular.

ECE Program Educational Objectives

Graduates of Electronics & Communication Engineering Shall

PEO1: Develop a strong background in basic science and mathematics and ability to use these tools in their chosen fields of specialization.

PEO2: Have the ability to demonstrate technical competence in the fields of electronics and communication engineering and develop solutions to the problems.

PEO3: Attain professional competence through life-long learning such as advanced degrees, professional registration, and other professional activities.

PEO4: Function effectively in a multi-disciplinary environment and individually, within a global, societal, and environmental context.

PEO5: Take individual responsibility and to work as a part of a team towards the fulfillment of both individual and organizational goals.

The institute is a symbol of egalitarian outlook without discretions. KITS student activity council is organized exclusively by students with representatives from various disciplines stands for the advocacy of democracy and leadership opportunities provided by the institute. KITS student clubs enable all the students and staff mingle freely to express their views and share their talents and expertise. **KITS imparts Outcome Based Education (OBE)** which gives equal opportunities to teaching and learning curricular, co-curricular and extra-curricular activities.

NBA Success Meet

"The Department of Electronics and communication Engineering got NBA accreditation for three academic years (up to 30th June 2021)"

The higher authorities of college are very happy for the Accreditation and thanked the faculty, students who supported. To enjoy the success the management celebrates a Success Meet in the college premises on 09th April 2018 from 10.00 AM to 3.00 PM.

All the faculty members and staff came along with the family members to the success meet. All faculty members take part in the celebrations with full of joy.

NBA peer team visited the college and the department for the verification on 16th , 17th and 18th of February 2018. They observed very keenly and aptly each and every lab in the ECE department. They have interacted with the students and faculty very well, by asking them various questions. They full fledgedly got satisfied with the verification of labs. They have given some valuable suggestions in order to improvise the department.

"Based on the expert team evaluation during 16th to 18th February 2018 the Competent Authority in NBA has approved the Accreditation for Electronics and Communication Engineering for three academic years (up to 30th June 2021)"

ADD ON COURSES

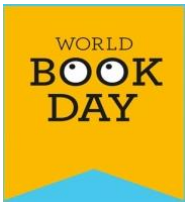
THE ECE DEPARTMENT TO INTRODUCING TWO ADD ON COURSES

As per our department advisory committee (DAC) recommendations and suggestions from recent NBA expert committee, The ECE Department to introducing two Add On courses as **Introduction to Matrix laboratory Programming, Introduction to Arduino & Rasberry Pi** for II/IV, III/IV B.Tech first semester students respectively .

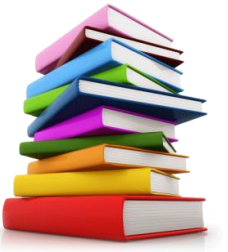
Add on Course means something that has been or can be added to an existing Course session is required to improve attainment levels. . These two courses handled in the slot of technical.

Year	Add on Course
II Year I Sem	MATLAB PROGRAMMING
III Year I Sem	Arduino & Rasberry Pi

WORLD BOOK DAY



World Book Day is an annual event celebrated every year by the people all over the world on 23rd of April. It is the most important event organized annually by the UNESCO in order to promote the reading, publishing and copyright among the public worldwide. World Book Day celebration was started by the UNESCO first time on 23rd of April in 1995.



The idea of celebrating books at the end of April originally came from booksellers in Catalonia, Spain, in 1923. This was when writer Vicente Clavel Andres wanted to honour fellow author Miguel de Cervantes who died on this date. It is also coincidentally the anniversary of the death of William Shakespeare.

Student Article:

Fire Fighting Drone

An unmanned aerial vehicle (UAV) is an aircraft capable of flying without a pilot or crew on-board. UAV's can be piloted remotely via a remote-control (RC), though controlling the aircraft autonomously or semi-autonomously is constantly noted. This can be achieved through a pre-programmed flight. Military applications benefited, still benefiting, the most since UAV's come in different sizes and shapes, but UAV's can also be used in other variety of applications such as aerial photography, scientific exploration, and small-sized items transportation.

Fire fighting is traditionally done using firemen and fire engine. Later it was modified to fire fighting robots. Fire Fighting Robots were controlled by electronic devices mounted on them. Our work aims to control and supply a solution for firefighting using a fire extinguisher and any such mechanism fitted on a Drone. Fire fighting is harmful job that invariably place the life of a fire fighter in danger. By putting a fire-fighter drone to perform this task in an inaccessible fire-prone area, it can aid to avoid and/or prevent untoward incidents or the loss of lives. This work describes the development of a fire fighting Drone equipped with the fighting instrumentation that may be required to be mounted on it. Fire Fighter Drone is designed for usage in extreme conditions. It can be operated and controlled by remote user and has the flexibility to extinguish flame. It is design to be controlled with a monitoring system and component communicates in wireless mode.

By/- E. Vyshnavi & Batch (IV ECE-I)

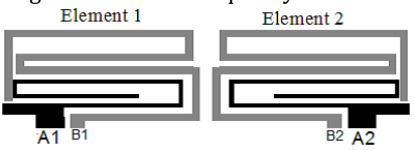
Faculty Article:

Design and Analysis of Decoupled Multiband Dual Antenna for Wireless Applications

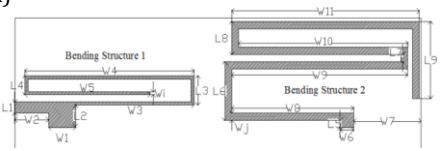
` Decoupled multiband dual antenna is proposed in this article which is used for the wireless applications. The proposed antenna is a simple antenna structure and decoupled antenna structure which increases the effective bandwidth and also it consists of the protruded ground and slotted structure

which reduces the coupling between the elements. The impedance bandwidth with S-parameter S11>-10dB satisfies the different operating bands. The mean effective gain, diversity gain and envelope coefficient are obtained from 3D radiation patterns. The results conclude that the proposed dual antenna achieve better diversity performance which is suitable for wireless applications. The structure for dual antenna having the antenna which is placed on the substrate of FR4 which consists of 0.8mm thickness, 4.4 relative permittivity, 0.02 loss tangent is shown in Fig.1., The total area is 95*60mm2. The antenna consists of dual sets of mirror identical bending structures which is shown in Fig 1(b) & 1(c). Each set having bending structure 1 and bending structure 2.The both bending structures are used one for low excitation of frequency and the other gives high excitation of frequency.

1(a)



1(b)



1(c)

The proposed antenna is shown in Fig 2. By using Ansoft HFSS 13 software, designed the model of antenna and getting the results after simulation are obtained. The antenna which is proposed was shown in Fig3 getting good results i.e.,S11<-10 dB which can cover all the GPS,PCS,GSM,DCS,LTE,UMTS and 2.4GHZ bands also. The proposed antenna both ends are shown in fig(2).The antenna which is proposed gives larger bandwidth and also the S21 curve gives >-10dB for all the required bands.

Fig (2)

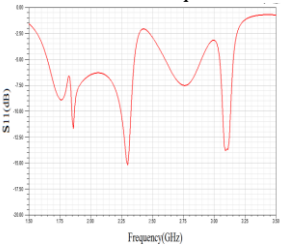


Fig (3)

By/- Ms. P.Jwalitha, Asst. Prof.

ACHIEVEMENTS

Faculty Achievements:

Prof. C. Satya Narayana Write a chapter with the name **"Energy Efficiency"** in a book named **Computational Intelligence in Sensor Networks, © Springer-Verlag GmbH Germany, Part of Springer Nature 2019, http://doi.org/10.1007/978-3-662-57277-1_11**

Mr. K.Raju & Mr. A.Sarat Kumar attended for a work shop on "NATIONAL WORKSHOP ON MATLAB AND ANALYSIS 6th -7th April 2018, Organized by Department of Mathematics VIT-AP, Amaravati Andhra Pradesh.

Mr.P.Ashok Babu presented a paper in a National Conference NCKITS-2018 with a papers entitled **"GSM Based Automatic Motor Control And Accident, Fire Alerting System"** and **"Efficient Speech Recognition Using Optimal Selection Of Features Based On Hybrid Abc-Pso"**

STUDENT PLACEMENTS

CINIF GLOBAL, EAST INDIA TECHNOLOGY PVT LTD, TECH MAHINDRA, WINDCARE INDIA PVT LTD, RAMTECH

The following students got selected in various campus drives.We wish to appreciate for dedication and commitment to perform with excellence in campus drive. Heartfelt obligation to you and keep your spirits

WINDCARE INDIA PVT LTD	
1	K.JAYAPRAKASHREDDY
2	P.GOPI CHAND

EAST INDIA TECHNOLOGY PVT LTD	
1	ANNA RAMA KRISHNA
2	PATHAN AABIDKHAN
3	T. JAYA KRANTHI KUMAR
4	B. ANIL KUMAR
5	DAMACHERLA VENU
6	CHANDU NAVEEN
7	TANNIRU SURESHGOPI
8	SINGAMANENI SAIKRISHNA
9	KOTA BALAJI
10	DIRISALA LOHITH KUMAR
11	ALA SUBBARAO

CINIF GLOBAL	
1	ALA SUBBARAO
2	K.LAKSHMI TIRUPATHAMMA
3	J.KAMALA SANTHI
4	NIMMALA SUPRIYA
5	KOYI PAVAN KUMAR
6	MIRZA IMRAN BAIG
7	K. JAYAPRAKASHREDDY
8	K. HARSHA VARDHAN
9	CH V SAI VIJAYKANTH
10	KANDHAGATLA VIVEK
11	CHAKKA SASANK
12	ANNA RAMA KRISHNA
13	K. NAVEEN SRIKANTH
14	B. JAYA KRISHNA
15	CHANDU NAVEEN
16	SYED ADIL
17	PATHAN AABIDKHAN
18	TALASILA HANUP KUMAR
19	PATHAN APSHA
20	P. GOPI CHAND
21	MANNE MOUNICA

TECH MAHINDRA	
1	KARISHMA MOHAMMED
2	MOHAMMAD SHARMILA
3	GUDE SIRISHA
4	MULPURI PRASANNA LAKSHMI
5	THALLURI AMANI
6	NIZAMPATNAM TUMEERA
7	SHAIK RESHMA
8	SHAIK KARESHMA
9	PATAN NOUSHEEN
10	VELPURI RUPA NAGA SWAPNA
11	MOHSIN PATTAN
12	NIDAMANURI RAJESWARI

RAMTECH			
1	K.NAGARJUNA	10	J.I RAMTEJA
2	P. SINDHU BHARGAVI	11	K. AMJESH
3	M. AJAY VENKATA PHANINDRA	12	M. SIVA KRISHNA
4	K. NAVEEN SRIKANTH	13	K. ANIL KUMAR
5	T.A HANUP KUMAR	14	M.AJAY VENKATA PHANINDRA
6	P.SUMANTH	15	Y. SAGAR SANDEEP REDDY
7	K.VENKATA SAI REDDY	16	K. VISHNUVARDAN
8	K. HEMANTH KUMAR	17	BULLA ARUN KUMAR
9	K. HARSHA VARDHAN	18	SRIRAMA AVINASH

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