ece news SYNCOM

A Voice Of Electronics And Communication Engineering

KKR&KSR INSTITUTE OF TECHNOLOGY & SCIENCES ECE DEPARTMENT |2017

ISB

BHEA

International Day of Yoga
Yoga for Harmony & Peace

Department of Electronics & Communication Engineering
KKR & KSR Institute of Technology and Sciences - Guntur ,A.P
Accredited with "A" Grade by NAAC
A Three Day National Level Workshop
on
Real Time DSP Implementation on
TMS320C6713 DSK
Dates : 8th - 10th June 2017
Venue : ECAD Lab
KITS KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES
Vinjanampadu, Vatticherukuru Mandal, Guntur - 522 017, A.P.

KITS
KKR&KSR INSTITUTE OF TECHNOLOGY AND SCIENCES

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

space
Redefine your Limits...

ORIENTATION PROGRAMMEE FOR 2016-2020 BATCH

Editors: Dr. M.Siva Ganga Prasad HOD-ECE & Mr. M.Sudhir

Advisory Board	*Student Coordinators*
Prof. C. Satyanarayana	Mr.K.Balaji
Mr. T.Bala Krishna	Ms.V.NagaRamya
Mr. P.AshokBabu	Ms.B.Sai Anjani
Mr. A.Sarath	Mr.G.Saketh

THIRD INTERNATIONAL YOGA DAY
Theme- "Yoga for Health"

The UN International Day of Yoga is celebrated every year on June 21. It was one of the biggest events in the country.On December 11 in 2014, the United Nations General Assembly declared June 21stas the International Day of Yoga.

On this eve the KITS College celebrated YOGA day. All students and faculty members actively participated in YOGA in the college premises
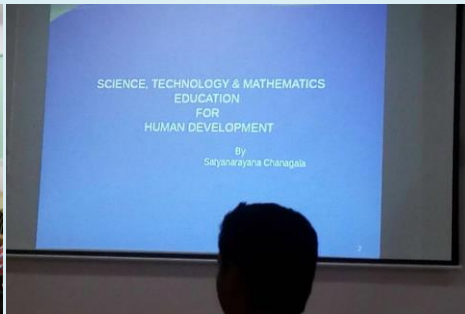
Campus placements

Congratulations to the students who selected in Campus placement conducted on 2nd June 2017

S.NO	NAME
1.	K. ANJANI SWETHA PRIYA
2.	A.DEEPTHI
3.	D.JYOTHIRMAI

Expert Lecture

The ECE Association conducted a *"Seminar"*on*"Role of Science Technology & Mathematics for Human Development"*on 07th June 2017from 3.40 PM to 5.20 PM in the ECE Seminar Hall. *Prof.C.Satyanarayana, ECE dept.* **is** the resource person for this lecture. This lecture is conducted to reach the department mission.

He said *"Teaching and learning is a continuous process for the teachers. A good teacher is usually an effective one who learns a sustained, substantial and positive influence the way student think and act. In both the process of learning and teaching, the attitude has a prominent role. A teacher has to primarily understand the entry level behavior of the student".* He said a balloon vendor story which gives the importance of inside beauty rather than the outside beauty*.*

WORKSHOP ON "REAL–TIME DSP IMPLEMENTATION ON TMS320C6713 DSK"

The ECE department association "SPACE" conducted a three-day National level workshop on 08th to 10th June 2017from 10.00 AM to 5.00 PM in the ECAD Lab. The resource person for this workshop is **Mr.U.MadhuSudhanRao, Director-UG consultant, Bangalore.** The topic of the workshop is "Real-time DSP implementation on TMS320C6713 DSK". This workshop is conducted for faculty to improve knowledge towards Research and development in Signal Processing.

 DAY 01(08th June 2017)

Between 9.00AM to 10.00AM, the registration process for participants was completed. The workshop is started with inviting the HOD, Principal, Secretary, Chairman, and resource person **Mr. U.MadhuSudhanRao** on to the Dias. After the messages of Dignitaries, Ms. R. Sharon of ECE department gave the brief introduction of the Resource person. Exactly at 10.30 AM, the workshop is started by**Mr.U.MadhuSudhanRao, Director-UG Consultant, Bangalore**. More than 40 faculty members actively participated in the workshop.

Few programs were carried out on the first day such as Hello world, Sine wave generation etc. He explained a program of generation of a sine wave in three ways. He shows how the CPU cycles were decreased from method to method. He decreased 92% of CPU cycles from method-1 to method-3. He explained the creation of library files. Around 5.00 PM the first day finished.

DAY 02 (09th June 2017)

On the second day, resource person explained about real-time generation Sine wave with DSK6713 and 6748 kits. It was a great session dealing with 6713 kits. With the great Patience, the resource person clarifies the all the doubts elevated by the participants. He explained each and every line of the program with his experience. With the positive note, the second day closed at 5.00 PM.

DAY 03 (10th June 2017)

On the third day, he explained how the image was imported from MAT Lab. He explained the Scheduling concept using DSL6713. At the end of the session *Mr.U.MadhuSudhanRao* explained to the participants how Signal Processing is use full in future. By 4.00 PM valedictory function is completed and closing remarks are shared by honorable *HOD* **and** *Dr. Md Zia Ur Rahman*. After the feedback from participants, certificates are distributed to all the participants

Orientation Program

The ECE Department conducted an *"Orientation program "*for the II year students on 12th June 2017 from 10.00 AM to 12.00 noon. *Dr. Siva Ganga Prasad, HOD ECE Department* interacted with II year students.

After the completion of the I year exams all the ECE I year students first time enter into the ECE Department. On this occasion *Dr. Siva Ganga Prasad, HOD ECE Department* conducted an Orientation program with the II year students. He explained the Department vision and mission with the students. He shared the department activities and achievements with students. Later he introduced all the faculty members to the II year students.

The following things are shared with students in the orientation program

- "SPACE" ASSOCIATION
- ACADEMIC STRUCTURE
- PANCHA SUTRA FOR SUCCESS
- STUDENT ACHIEVEMENTS
- PLACEMENTS

Faculty Activities:

DR. Siva Ganga Prasad published a paper on"Low Latitude Ionosphere Irregularities Detection from Cosmic GPS Radio Occultation" , "Time-Varying Constraints considering for Efficient Resource Allocation in Cognitive Radio Networks", "Energy Efficient Clustering Techniques: A Survey", "Notification Algorithm for Cognitive Radio Network based on TV Whitespace" International Journal of Applied Sciences, Engineering, and Management, ISSN 2320 – 3439, Vol. 06, No. 03, May 2017.

Prof. K. MadhuSudhanaRaopublished a paper on"Face Recognition by using A Novel Fusion based Hybrid System", "2-DPCA, ICA, 2-DWT, Neural Network and SVM based Face Recognition", "Microstrip Antenna Design for WLAN Applications" and "UWB Hexagonal Patch Antenna Design and Simulation" International Journal of Applied Sciences, Engineering and Management,ISSN 2320 – 3439, Vol. 06, No. 03, May 2017.
With his interest, he presented a paper on "Design an efficient built-in Self-test pattern for Memory Access" in a National Conference on Recent Advance in Science, Engineering, Technology and Management (NCRASETM).

Dr. Md Zia Ur Rahmanpublished a paper on "Least Mean Forth Algorithms for Efficient Adaptive Exon Predictors for Locating Exon Regions in Genomic Sequences", "Implementation of FPGA Cryptographic Systems for Symmetric Encryption" , "Cardiac Signal Enhancement based on Adaptive Noise Cancellers with modified Normalized Step Size Algorithms" , and "Prediction of Protein Coding Regions using Modified Data Normalization Techniques "International Journal of Applied Sciences, Engineering and Management,ISSN 2320 – 3439, Vol. 06, No. 03, May 2017

Prof. V. Murali Krishnapublished a paper on "Cross-Camera Knowledge for Multi-vision People Counting " International Journal of Applied Sciences, Engineering and Management, ISSN 2320 – 3439, Vol. 06, No. 03, May 2017

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Prof. C.Satya Narayana attended the workshop on "Real-time DSP implementation on TMS320C6713 DSK" from 08th to 10th June 2017.

Mr. K.Raju, Assoc. Prof   published a paper on "Face Recognition by using A Novel Fusion based Hybrid System " , "2-DPCA, ICA, 2-DWT, Neural Network and SVM based Face Recognition", "Gray-level co-Occurrence Matrix and Neural Networks based Exudates Detection in Diabetic Retinopathy Images" and "Hybrid Model for Face Recognition" International Journal of Applied Sciences, Engineering and Management,ISSN 2320 – 3439, Vol. 06, No. 03, May 2017
He attended the workshop on **"Real-time DSP implementation on TMS320C6713 DSK"**from 08th to 10th June 2017.

Mr. G. Malyadri, Assoc. Prof   attended the workshop on "Real time DSP implementation on TMS320C6713 DSK" from 08th to 10th June 2017

Mr. P.Vasim Babu, Assoc. Prof attended the workshop on "Real-time DSP implementation on TMS320C6713 DSK" from 08th to 10th June 2017.

Mr. M.Srinivas, Asst. Prof published a paper on "Design and Simulation of CMOS Based Parallel Prefix Adder Using Ladner-Fischer" International Journal of Applied Sciences, Engineering, and Management,ISSN 2320 – 3439, Vol. 06, No. 03, May 2017

Mr. A.Sarath Kumar, Asst. Prof   Published a paper on "Comparison of Efficient Routing in ECA with EEHC in Wireless Sensor Networks"in International Journal of Applied Sciences, Engineering, and Management,ISSN 2320 – 3439, Vol. 06, No. 03, May 2017.

He attended the workshop on **"Real time DSP implementation on TMS320C6713 DSK"**from 08th to 10th June 2017.

Mr. R. Ram Mohan, Asst. Prof. attended the workshop on "Real-time DSP implementation on TMS320C6713 DSK" from 08th to 10th June 2017.

Mr. P.AshokBabuattended the workshop on "Real-time DSP implementation on TMS320C6713 DSK" from 08th to 10th June 2017.

Mrs. Thirumala Devi, Asst. Prof published a paper on"Earthquake Detection using Triggered Roof holes "International Journal of Applied Sciences, Engineering, and Management,ISSN 2320 – 3439, Vol. 06, No. 03, May 2017.

With her interest, she presented a paper on " Design of High-Speed Cryptography using Finite Field Multiplier" in a National Conference on Recent Advance in Science, Engineering, Technology and Management (NCRASETM)

Mr. M.Nagaraju, Asst. Prof published a paper on"GSM and GPS based Traffic Congestion Avoidance System"International Journal of Applied Sciences, Engineering, and Management,ISSN 2320 – 3439, Vol. 06, No. 03, May 2017

Mrs. Bhavani.T, Asst. Prof published a paper on"Reduction of PAPR using Non-Linear Companding Transform in OFDM System" and "Orthogonal Frequency Division Multiplexing using Modulation Techniques" International Journal of Applied Sciences, Engineering, and Management, ISSN 2320 – 3439, Vol. 06, No. 03, May 2017.She attended the workshop on **"Real time DSP implementation on TMS320C6713 DSK"**from 08th to 10th June 2017.

Mr. E.Bhanu Prasad, Asst. Prof published a paper on"Suppression of Side Lobe in OFDM Based Cognitive Radio "International Journal of Applied Sciences, Engineering, and Management, ISSN 2320 – 3439, Vol. 06, No. 03, May 2017.

He attended the workshop on **"Real time DSP implementation on TMS320C6713 DSK"**from 08th to 10th June 2017.

Mr. MaduguriSudhir, Asst. Prof published a paper on"Maintenance of Pedestrian Way" and "Audio Steganography for Hiding the Retrieval of Text" International Journal of Applied Sciences, Engineering, and Management, ISSN 2320 – 3439, Vol. 06, No. 03, May 2017.
He attended the workshop on "**Real time DSP implementation on TMS320C6713 DSK"**from 08th to 10th June 2017.

Mr. P.Brahmaiah, Asst. Prof. attended the workshop on "Real time DSP implementation on TMS320C6713 DSK" from 08th to 10th June 2017.

Ms.T.Revathi ,Asst. Prof published a paper on"CSA Based Column Bypass Multiplier" International Journal of Applied Sciences, Engineering, and Management,ISSN 2320 – 3439, Vol. 06, No. 03, May 2017.

Ms. P.Jwalitha, Asst. Prof. attended the workshop on "Real-time DSP implementation on TMS320C6713 DSK" from 08th to 10th June 2017.

Mr. T.VenkatRao, Asst. Prof published a paper on"Video Surveillance System for Internet of Things (IoT) With Motion Detection using Raspberry Pi" and "Design of CDAS for Trains using Delay Management RF Communication "International Journal of Applied Sciences, Engineering and Management,ISSN 2320 – 3439, Vol. 06, No. 03, May 2017.
He attended the workshop on **"Real time DSP implementation on TMS320C6713 DSK"**from 08th to 10th June 2017.

Mr. T. Bala Krishna, Asst. Prof attended the workshop on "Real-time DSP implementation on TMS320C6713 DSK" from 08th to 10th June 2017.

Mr.K. MallikarjunaRao, Asst. Prof published a paper on"Quadcopter based College Surveillance" and "Ingenious Helmet based Alcohol Sensing, Vehicle Tracking and Accident Proclamation system "International Journal of Applied Sciences, Engineering, and Management, ISSN 2320 – 3439, Vol. 06, No. 03, May 2017.
He attended the workshop on **"Real time DSP implementation on TMS320C6713 DSK"**from 08th to 10th June 2017.

Mr. B.Venu, Asst. Prof published a paper on"OFDM Performance improvement with Partial Transmit" and "Enhancement & Monitoring of Fetal Electrocardiogram (FECG) using Adaptive Filtering" International Journal of Applied Sciences, Engineering, and Management,ISSN 2320 – 3439, Vol. 06, No. 03, May 2017.

He attended the workshop on **"Real time DSP implementation on TMS320C6713 DSK"**from 08th to 10th June 2017.

Mrs. P.Sarala, Asst. Prof published a paper on"Peak-to-Peak Average Power Ratio Reduction for MIMO-OFDM System using STBC" International Journal of Applied Sciences, Engineering, and Management,ISSN 2320 – 3439, Vol. 06, No. 03, May 2017.
With her interest she attended for FDP on "Signal Processing for Wireless Communication" from 12-17 June 2017 AT MIC COOLLEGE OF TECHNOLOGY

Mr. K.Murali Krishna, Asst. Prof published a paper on"Bias Corrected Levelset for Lung Image Segmentation" and "Cancellation of Inter Symbol Interference using Adaptive Decision Feedback Equalizers" International Journal of Applied Sciences, Engineering, and Management,ISSN 2320 – 3439, Vol. 06, No. 03, May 2017.

He attended the workshop on **"Real-time DSP implementation on TMS320C6713 DSK"**from 08th to 10th June 2017.

Mr. K.Srinivasa Rao, Asst. Prof. attended the workshop on "Real-time DSP implementation on TMS320C6713 DSK" from 08th to 10th June 2017.

Student Activities:

Ms. R.Sharon M.Tech II Year II Semester student attended the workshop on "Real-time DSP implementation on TMS320C6713 DSK" from 08th to 10th June 2017.

With her interest, she presented a paper on " Design of High-Speed Cryptography using Finite Field Multiplier" in a National Conference on Recent Advance in Science, Engineering, Technology and Management (NCRASETM)

M.Tech II Year II Semester student **Ms .N.Sonia** attended the workshop from 08th June to 10th June 2017 on "Real-time DSP implementation on TMS320C6713 DSK".

Ms. P.Kranthi, M.Tech II Year II Semester student attended the workshop on "Real-time DSP implementation on TMS320C6713 DSK" from 08th to 10th June 2017.With her interest, she presented a paper on " Design an efficient built-in Self-test pattern for Memory Access" in a National Conference on Recent Advance in Science, Engineering, Technology and Management (NCRASETM).

Results

Indian School of Business:

We are very happy to announce that our students completed the I Year of TEP 2016 offered by the Indian School of Business (ISB). Hearty Congratulations. Out of all students 11 following students from our department passed with Good Grade

Name of the student	Grade	Name of the student	Grade
1. Mr. Sudharshan	A+	6. Mr. Shesha Sai	A+
2. Mr. Sk.Shukour	A+	7. Mr. Ch. Sai Teja	A+
3. Mr. V.Sai krishna	A+	8. Mr. M. Bhuvanesh	A+
4. Ms. Tejaswi.K	B	9. Ms. Vyshnavai	A+
5. Mr. Venkata Sai Kiran	A+	10. Ms. Sk.Tumeera	B
		11. Mr. Chandra Sekhar	D

IV-II :

The Department of Electronics and Communication Engineering Heartily congratulated all the toppers of 2017 pass out students for fabulous performance in the last semester Exams. Let this be considered as a source of inspiration to the entire students of the department and an impetus to excellence. Big thumbs to all the faculty members who prepared the students for such a great success.

SNO	REGDNO	NAME	PERCENTAGE
1	13JR1A04B6	SYED SADANA BANU	85.00
2	13JR1A0451	JAMPANI GAYATHRI	82.67
3	13JR1A04C0	THOTA PRIYANKA	81.17
4	13JR1A04B7	TADIPANENI CHANDANA	80.83
5	13JR1A04B8	THOTA MADHAVI	80.50

III-II:

Make it a habit of bringing success and prosperity to kindle branch of ECE, we heartily congratulate the toppers of IV year students for magnificent performance in III years II Semester Exams. We encourage you to continue the same tempo in the upcoming semester.

SNO	REGDNO	NAME	PERCENTAGE
1	14JR1A04F2	Y.. LATHA JAHANAVI	89.55
2	14JR1A04D6	T. KEERTHI	88.00
3	14JR1A0436	J. VENKATA KRISHNAVENI	86.58
4	14JR1A0482	M. DURGA KAVERI	85.55
5	14JR1A04H4	V. P V S SUDARSHAN	85.03

II-II:

Congratulations to toppers of III years for magnificent performance in II-II exam.

SNO	REGDNO	NAME	PERCENTAGE
1	15JR1A0475	LI.Y N V DIVYA SUPRIYA	90.27
2	15JR1A0420	CHINTALA TEJASWI	89.47
3	15JR1A04C6	PRANAMIKA DORA	88.00
4	15JR1A0473	K. LAKSHMI PRASANNA	86.27
5	15JR1A0482	MOCHARLA NAGA SUMA	85.47

GSLV MkIII-D1/GSAT-19 Mission

GSLV MkIII-D1 at Second Launch Pad

The Mission

GSLV MkIII-D1/GSAT-19 Mission is the first developmental flight of GSLV MkIII, a heavy lift launch vehicle, capable of lofting payloads up to 4,000 kg into Geosynchronous Transfer Orbit (GTO) and 10,000 kg into Low Earth Orbit (LEO).

GSAT-19, a high throughput communication satellite is identified as the payload in this mission. This will be the heaviest satellite being launched from India till date.

Launch of GSLV MkIII-D1 is planned from the Second Launch Pad at Satish Dhawan Space Centre, Sriharikota.

Mission Specifications	
Orbit	**GTO**
Perigee	**170 km**
Apogee	**35975 km**
Inclination	**21.5 degree**
Payload Mass	**3136 kg**

GSLV MkIII-D1 Stage Characteristics

Parameters	Stages		
	Two S 200	L110	C25
Length (m)	26.2	21.39	13.545
Diameter (m)	3.2	4	4
Propellants	Composite solid	Hypergolic liquid	Cryogenic
Propellant Mass (t)	2 x 205	116	28
Stage Mass at Lift-off (t)	472	125	33