

NEWSLETTER

FEB 2020 VOL.1 ISSUE 1

# THE LYCEUM

THE VOICE OF ECM



## THRUSANG'2020

NATIONAL LEVEL TECHNICAL FEST

## NSS & CEA

CONDUCTED BLANKET DRIVE

## OVERALL CHAMPIONSHIP

IN VNR-VJIET HYDERABAD



## OUR FACULTY - OUR STRENGTH





# ABOUT THE DEPARTMENT

Electronics and Computer engineering (ECM) is a course that aims to combine two separate fields of engineering to meet demands made by electronics and computer industries. This program has been developed in response to the industry demands to develop students' hardware and software engineering skills in an integrated way. Our curriculum focuses on many real-time applications, which includes smart homes, smart city, smart traffic management, smart agriculture, healthcare applications, web designing, cyber security, automotive electronics, environmental monitoring etc.

The undergraduate course mainly focuses on electronics courses like analog electronics, digital electronics, embedded system, communication system and computer courses like logical thinking, data structures and algorithms, DBMS, Web development, computer network, software engineering, Internet of Things (IoT), Machine Learning, Artificial Intelligence, Deep Learning etc. Our department provides a specialization in Embedded Systems, Web Technologies, IoT (Internet of things), VLSI, Artificial Intelligence and Machine Learning etc. And department offering one Post Graduation programme, (Embedded Systems) which suits for industrial needs.

The Course helps the students to enter into various professions as Embedded Engineers, Firmware Engineers, Software Engineers, Software Developers, Web Application Developers, IoT Application Developers, Automobile Electronics Engineers, ICT (Information Communication Technology) Engineers, VLSI Engineers, Forensic Engineer etc. Many companies need engineers with hardware and software knowledge, and our students cater to their requirements. Our department provides proficiency in many aspects of the student's career like assistance for master degree program both in and out of the country through GATE, GRE, TOFEL, IELTS etc.

## OUR VISION

To impart value-based, state-of-the-art education and motivate students to become socially committed professionals for their overall development

## OUR MISSION

To promote innovation centric education and perform cutting edge research in interdisciplinary and multidisciplinary areas

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PROFESSOR & HOD

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Deputy HOD, ECM

Dr.P.Gopi Krishna  
Assoc.Professor

Sri.M.Venkateswara Rao  
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PROFESSOR



## FIRST YEAR ORIENTATION PROGRAM

Department of ECM conducted an Orientation/Induction Program for our first year students on 27/02/2020.

HOD-ECM and other senior faculty addressed about the familiarization with College, Department/Branch, grading system, and about the examinations. They informed about how study in college differs from study in school. They took a tour of the college shown important points such as library, canteen, and other facilities. They were shown their department, and told what it means to get into the branch or department. Describe what role the technology related to their department plays in society, and after graduation what role the student would play in society as an engineer in that branch. A lecture by an alumnus of the Dept. would be very helpful in this regard. They were shown the laboratories, workshops and other facilities.

This Year, KLEF – ECM is taken an initiative to acclimatize and expose incoming students to various facets of campus life and help them to realize their full potential. To accomplish this task, induction program for I /IV B.Tech students was held on 27th Feb 2020. Mentoring and connecting the students with faculty members is the most important part of student induction.



## FACULTY ACHIEVEMENTS

### 1. Dr.JYOTHI RAVI KIRAN KUMAR DABBAKUTI

#### PUBLISHED A PAPER ENTITLED

“IMPLEMENTATION OF IOT ANALYTICS IONOSPHERIC FORECASTING SYSTEM BASED ON MACHINE LEARNING AND THINGSPEAK”

IN JOURNAL IET RADAR, SONAR & NAVIGATION WITH ISSN 1751-8784 IN FEBRUARY-2020.



### 2. Ms.B ARUNA

#### PUBLISHED A PAPER ENTITLED

“A PECULIAR PRESUME TOWARDS MINING ONLINE MENTAL STRESS IN SOCIAL NETWORKS”

IN INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH-IJSTR WITH ISSN IN FEBRUARY-2020.



### 3. Dr.TATIANA CHAKRAVORTI

#### PUBLISHED A PAPER ENTITLED

“NON-LINEAR SYSTEM IDENTIFICATION USING KERNEL BASED EXPONENTIALLY EXTENDED RANDOM VECTOR FUNCTIONAL LINK NETWORK”

IN APPLIED SOFT COMPUTING WITH ISSN 106117 IN FEBRUARY-2020.



### 4. Mr.M.TRINATH BASU

#### PUBLISHED A PAPER ENTITLED

“MULTI-FACTOR AUTHENTICATION THROUGH INTEGRATION WITH IMS SYSTEM”

IN INTERNATIONAL JOURNAL OF EMERGING TRENDS IN ENGINEERING RESEARCH WITH ISSN 2347 - 3983 IN FEBRUARY-2020.

#### PUBLISHED A PAPER ENTITLED

“STRENGTHENING AUTHENTICATION WITHIN OPENSTACK CLOUD COMPUTING SYSTEM THROUGH FEDERATION WITH ADDS SYSTEM”

IN INTERNATIONAL JOURNAL OF EMERGING TRENDS IN ENGINEERING RESEARCH WITH ISSN 2347 - 3983 IN FEBRUARY-2020





# PLACEMENTS



A.VENKATA KALYAN LAXMANA  
160050011  
PACKAGE RS:-3.5LPA



B. PRANATHI  
160050026  
PACKAGE RS:-3.5LPA



K.ALEKHYA  
160050113  
PACKAGE RS:-3.5LPA



MADDURI SASI VARDHAN  
160050127  
PACKAGE RS:-3.5LPA



M. B N BHARGAVI  
160050144  
PACKAGE RS:-3.5LPA



S. SAI ROHITH  
160050184  
PACKAGE RS:-3.5LPA



S.MANOOGNA  
160050185  
PACKAGE RS:-3.5LPA



TADAKAMALLA VIVEK  
160050203  
PACKAGE RS:-3.5LPA



T. KIRAN REDDY  
160050209  
PACKAGE RS:-3.5LPA



TEJASWINI YAMMANI  
160050226  
PACKAGE RS:-3.5LPA



M. MANIDEEP  
160050243  
PACKAGE RS:-3.5LPA



B. PRANATHI  
160050026  
PACKAGE RS:-3.3LPA



YASWANTH KUMAR GOLI  
160050069  
PACKAGE RS:-3.3LPA



KONIDALA SRILEKHYA  
160050117  
PACKAGE RS:-3.3LPA



MADALA SINDHU VARDHAN  
160050123  
PACKAGE RS:-4LPA



RAMYA LINGAM  
160050181  
PACKAGE RS:-6LPA



GIRISH SAI P  
160050160  
PACKAGE RS:-3.5LPA



V SUSHMA REDDY  
160050217  
PACKAGE RS:-3.6LPA



T. KIRAN REDDY  
160050209  
PACKAGE RS:-3.6LPA



VISHNUBHATLA VALLI AISHWARYA  
160050222  
PACKAGE RS:-3.4LPA

## THRUSANG'2020 A TWO DAY NATIONAL LEVEL TECHNICAL FEST

THRUSANG-2020 a two day national level technical fest with the theme Techniculture organized by the department of ECM in KLEF. The purpose of organizing the fest is to provide a platform to students to show their creative and innovative talents. it is a platform which opens a whole new world for talent, teamwork, imagination along with the spirit of engineering which brings technological and modern minds under one roof. The first Edition of Thrusang was initiated by Dr.Suman Maloji and Dr.Balaji in the year 2012.This year it was again brought up by K.Sri Revanth of IIIrd Year as this 5th Edition of Thrusang integrates the dreams of the students and sets a technical base for the next edition.

The ECM department conducts “Thrusang-2020” Department level contest with multiple technical events, this year Thrusang-2020 received an overwhelming response in all its events and was a magnificent success with huge participation. The motive of this event is to develop various skills of students in Co-Curricular activities and to expose them to the current trends in the technical and professional fields.

Thrusang includes various Workshops and Technical events like:

### Workshops Technical events

- Ethical Hacking
- ASIC Design & Verification
- UI Frameworks
- Industrial Embedded & IoT Systems Development
- Embedded Systems - Made Easy
- Project Expo
- Project Presentation
- Paper Presentation
- Poster Presentation
- Technical Quiz



In all the events, winners were awarded with certificates. Tech-fests unforgettable imprints remain with us.

We have been fortunate enough to be backed by a team of very motivated and dedicated faculties, who know their job and are result oriented. We are glad the efforts put in by everyone have barred us the fruits. We extend our most sincere thanks to the entire ECM family for their incessant support, guidance for making Thrusang-2020 a great success.

Whether the assistance we received was obvious or subtle,  
Acknowledging someone's help is a big part of understanding.  
“Thank you all.”



## TECHNICAL ARTICLE :

### GLOBAL TECHNOLOGY GOVERNANCES

Technology Policy-makers are under increasing pressure to respond to the social impact of technological advances without restraining entrepreneurship, innovation, and economic growth. This will require a more agile approach to governing advanced technologies, creating public-private partnerships, and developing business models. To that end, the World Economic Forum is convening the first Global Technology Governance Summit in San Francisco on 21-22 April 2020, in close collaboration with Centre for the Fourth Industrial Revolution (C4IR) Network - which is comprised of more than 40 governments and international organizations as well as 150 companies. We must help future generations avoid widening the social divide. The proliferation of Fourth Industrial Revolution technologies requires us all to assume a collective responsibility for their ethical and equitable use.

This responsibility applies to a broad range of interested parties, and to a number of cutting-edge advances - not least those related to machine learning, synthetic biology, and DNA data storage. It is important to understand what kind of guidelines currently exist for technology justice, and to help successive generations develop responsible new iterations of those rules that take into account the ways technology transforms both how we make decisions, and our perceptions of what is right and wrong. We need to devise ways to establish ethical guidelines for these future generations, so they can avoid widening the social divide - and, to that end, it is particularly important to enable lifelong education in the area of “just” technology. Increasingly, efforts are being made to bolster the rights of people to choose and use only those technologies that help them live life according to their personal values, without comprising the ability of others to do the same. Collective decision-making on what needs to be done to ensure that “just” technology becomes a reality must be woven into innovation at every one of its stages.



**MS. R. KRISHNAVENI**  
**ASST. PROFESSOR. ECM**



## STUDENTS DREAM

One night I had a dream  
I heard deep in meadows a big scream  
Running fast towards it to verify  
Lot of burden on my shoulders to modify

A life without Technology  
Can't be imagined in the community.  
Humanity shared in WhatsApp  
Simply to say in real it's packed up  
Many smiles in twitter  
Seems the lots of memories like water

A life without technology  
Can't be imagined in society  
Every new thought flies like drone  
Always leaves a question to mother the return of son to home  
Store all the data for ever in a chip  
Same time lets have morality grip

A life without technology  
Can't be imagined without analogy  
Many aromas may come like Carona  
We Indians never change from love as Phenomena  
Never we fear because everything is clear  
Yet knowing how way leads on to way  
I doubted if I should ever come back.

I woke up:  
Yes: here lies the deepest secret  
That which we could not reject  
Here are root of roots bud of buds  
Sky of sky's of a tree called life  
Which is given higher than soul  
And only the fate which leads  
to the other ends of unknown trends.



Ms. B ARUNA  
ASST. PROF.



# FACULTY ACHEIEVEMENTS :

- Mr.K.Karthikeya(160050105),Mr.M.Sai Teja (160050148),Dr.Ali Hussain, Smt.S.Sridevi,Smt.P.S.G.Aruna Sri, Mr.K.V.D.Sagar ,Mr.M.Trinath Basu,published a patent “Method Involved in calculation of domain specific score.”
- Mr.K.V.D.Sagar attended worldwide Amazon web services (AWS) Innovative online conference.
- K.Karthikeya(160050105),M.Saiteja(160050148),Mr.K.V.D.Sagar got acceptance for a paper entitled “D-impact score-calculating author’s impact in specific domain” from SCI indexed journal -Journal of Research on the Lepidoptera,USA.

- Mr.K.V.D.Sagar completed online course IBM Data Science in Course Era.



**9 Courses**

- What is Data Science?
- Open Source tools for Data Science
- Data Science Methodology
- Python for Data Science and AI
- Databases and SQL for Data Science
- Data Analysis with Python
- Data Visualization with Python
- Machine Learning with Python
- Applied Data Science Capstone



03/01/2020

## V Daya Sagar Ketaraju

has successfully completed the online, non-credit Professional Certificate

## IBM Data Science

In this Professional Certificate learners developed and honed hands-on skills in Data Science and Machine Learning. Learners started with an orientation of Data Science and its Methodology, became familiar and used a variety of data science tools, learned Python and SQL, performed Data Visualization and Analysis, and created Machine Learning models. In the process they completed several labs and assignments on the cloud including a Capstone Project at the end to apply and demonstrate their knowledge and skills.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

*Joseph Santarcangelo*  
Joseph Santarcangelo  
Senior Data Scientist  
IBM

*Polong Lin*  
Polong Lin  
Data Scientist, IBM

*Alex Akison*  
Alex Akison, Ph.D.  
Data Scientist

*Rav Ahuja*  
Rav Ahuja  
AI & Data Science  
Program Director,  
IBM Skills Network

*Jaivel A.*  
Saeed Aghabozorgi  
Sr. Data Scientist  
IBM

Verify this certificate at:  
[coursera.org/verify/professional-cert/RYDMRNHEUF3A](https://coursera.org/verify/professional-cert/RYDMRNHEUF3A)

## NSS & CEA BLANKET DRIVE

For most of us, the idea of winter means cuddling under the blanket for warmth, lying in our comfort zone and sipping coffee sitting beside the fire. But for those on the streets, with every drop in the temperatures it's a fight for survival. Every winter, our organization, K L Education Foundation runs Blanket Donation Campaign, where we provide warm blankets to the underprivileged living in the open on the streets. We try our best to reach out to people in Vijayawada and other parts of Guntur. There is no better gift than providing warm clothing to the needy during winter season. Lakhs of homeless experience bitterness of winter and are at a great risk of suffering from severe illness. The rise in air pollution levels and the early onset of winter this year have made them vulnerable, but at the same time it has given us an opportunity to serve humanity by donating blankets to the needy. This winter, become a part of our mission. There cannot be a bigger satisfaction than saving someone's life. Event "Blanket Drive" is organized with a motto of sensitizing the student community of KLEF by giving them the opportunity of serving the needy people by means of donating the blankets. Several Drop bins were placed at various locations in the campus premises like Indoor Stadium, C-block, R and D block, Fed, Library, Mechanical and EEE blocks. Students were encouraged to donate their contributions at these drop bins from the dates of 01-01-2020 to 07-07-2020. Students and Faculty of all the departments gave their generous donations. A survey is conducted by the volunteers of CEA to find out the needy places to distribute the collected blankets. On the day of distribution that is 06-02-2020, volunteers of CEA distributed the collected blankets at the places like Prakasam Barrage, Railway station, Old town etc.





## TECHNICAL CLUBS :

S.N.	Clubs	Details
1	E-Tinkers Club	The Embedded-Tinkers club anticipates embedded system study and project development in broad activities considering the process of designing, modelling and simulation and realization on Embedded Industrial Development Boards. Enforce the efforts to build prototypes for societal and industrial hassles.
2	WebVault Club	The Web Vault Club promotes technical skills among student & faculties, provides a platform for innovation and excellence in the field of Web Applications, Web development and designing technologies.
3	IConnect Club	The IoT-Connect club has been well formulated to develop interest and competence of the students in the Internet of Things (IoT) and allied domains with emphasis on application aspects of the concepts.
4	Gyaan Club	The club objective is to equip the students and faculties with the ability and skills for the development and strengthening of problem solving, analysis, design, research, team work and readiness for lifelong learning in areas of Smart System Designing, Machine Learning, Human Machine Interaction Systems and various other Intelligent applications.
5	IC Hatch Club	The Integrated Circuit Hatch club focuses on Integrated Circuits study and research with the broad activities comprising of Hardware Intellectual Properties (IP), modelling, designing, simulation, IC fabrication, Testing and Verification.

## TECHNICAL ARTICLE :

### HARDWARE IMPLEMENTATION OF AI

We all know that artificial intelligence has been a game changer in almost every industry. The fortune 500 companies which are now trending as the top notch companies of the world are directly involved with AI and its applications. The various different possibilities of computation are now being developed and as the efforts are multiplied, we need more tools and a better skillset to cope up with those possibilities. Currently, there is a world-wide explosion of Artificial Intelligence applications and yet in the near future we might feel that the computation abilities of an AI machine is slow. These circumstances makes many researchers to think on how to increase the abilities of the AI system.

Hardware always had an edge on the software in terms of speed. The hardware implementation of the software makes the process to be executed faster than that of a software. The future of many different software solutions lies in unlocking their functionality in a hardware system. AI is an application which is less about hardware and software. It is something which is more based on the quality and quantity of the movement of data. The various issues revolving around the current AI systems are regarding how the system would handle the huge amounts of data and sufficiently handle them. Computational problems thus arise making the different levels of data to be disorganised. In the near future when the datasets reach almost to an unimaginable level, the current AI system cannot handle the processes. This makes the research to go towards the Hardware implementation of AI.

We have various applications like cars which are getting increasingly autonomous, homes which are getting smarter by the day and many such examples where we see the electronic devices getting more intelligent. AI chips are like mini-microprocessors which would help in making the computational issues more easy when compared to a normal processor. These developments are basically just processors which would support the various machine learning and neural net applications in a better way compared to the normal processors. But this field is currently under development and research. Many new developments are made towards making these chips and make the new version AI systems better and more efficient.



**T.V.S.SRIVATSA**  
**170050119 III ECM**



## I IN THE FIRE OF LEADERSHIP

I would like to share the beautiful experience of my first national NCC camp. Over 300 cadets from 17 directorates all over the country- Northern states of Punjab and Himachal Pradesh to the Southern tip of Tamil Nadu and from the far corners of North Eastern States to Gujarat in the west participated in the 12-day Advance Leadership Camp organized by the NCC Directorate of GUJARAT, DADRA NAGAR HAVELI, DIU & DAMAN. Our camp was designed with the theme “SSB Screening Capsule” with a dose of SSB Interview pattern in Indian Armed Forces.

Leadership camps improve not only your manners and behaviour, but your personal morale, appearance, and confidence. Since attending Advance Leadership Camp in January, I have noticed a change in my attitude, If I am about to do something I don't want to do, I try to make the best out of it and stay positive.



The journey started on 14th Jan,2020 and we, the cadets from AP & Telangana directorate gather at Vijayawada and boarded the Navajeevan Express and headed towards Gujarat. I was quite nervous and curious about how the camp would go. We reached Anand District and were taken to the camp which was at Thamna Educational Trust area at Thamna Village. It was very cool in the North-west decreases up to 7 degree but we adjust for two days to adopt the climate and used to sit in the sunlight during classes.

Our day started with roll call in the morning followed by Physical Training. Then lectures were given by GTO, Psychologist and interview officer on SSB Interview Pattern and Leadership qualities. Many competitions such as Group discussion, Debate and Lecturette between cadets of different NCC directorates of the country were conducted. I participated in many, one being the lecturette competition. The topic I chose was “why can't we say India is developed country?”. In front of me were 300 cadets, the ADG Major General Roy Joseph, Group Commandeer Brigadier R K Gaikwad, the Commanding Officer Colonel Bharath Dabral, Subedar Major Thapa Para Special force Commando, A.N.Os and other PI staff. And yes! I gave the lecture confidently without any fear. A big round of applause in that huge hall still echoes in my ear. I was proud of myself.

We were taken for sight-seeing to Thamna Village (Best Village of India). we interact with farmers, what are the crops they use to cultivate & no.of crops per year, how the govt support to the farmers. I enjoyed explaining our culture and rituals to cadets of other states. Since we were in NCC uniform, as we walked through the streets, the local people looked at us curiously and tiny kids came running to say “hi!” and shake hands and greeted us. It felt like... we were kind of celebrities.

On the last day of the camp “Bada Khana” (variety of dishes) was arranged. I was happy that the camp went successfully at the same time sad because we lived together like a family all those days and maybe we would part soon. We took many selfies and the night before we left, there was a disco night. And everyone there, regardless of culture, religion or region they have come from were holding hands together and screaming with joy at the site of beautiful light patterns in the dark sky. It was the moment to say Good Bye! I loved the camp life and I will miss it and the people.

This camp taught me discipline, to accept people the way they are, infused courage and strength, motivated me to do something to motherland and respect her and ultimately it made me a better person. I saw a Mini India in short span. As I return I take a very big suitcase of memories, lessons, new friends and the challenge to develop myself. Recently my 3 years of NCC turn (2017–2020) was completed. It’s very proud to me but I’m missing those days.

**“BUT ONCE A CADET WILL ALWAYS A CADET, AM A CADET.”**



**TELUKUTI MOHAN KUMAR**  
**170050125 - III ECM**



# ACHIEVEMENTS :

## OVERALL CHAMPIONSHIP

In VNR-VJIET HYD



## OUR CHAMPIONS

1. Kumar Sai S	160050195	Kho-Kho
2. Pala Ram Sai	160050162	Kho-Kho
3. Nagarjuna	160050167	Kho-Kho
4. N.V.S.Keerthika Dulam	170050090	Basketball, Atheletics
5. Dasika Meghana	170050021	Throwball
6. K. Sai.Koushick	170050067	Basketball

# STUDENT COORDINATORS



**BANKA.V.S.SAI.RITHVIK**  
170050009 III ECM



**D.SEETHARAM DIVISH**  
170050026 III ECM



**MOHAN KUMAR TELUKUTI**  
170050125 III ECM



**N.V.S.KEERTHIKA DULAM**  
170050090 III ECM



**T.CHANDU SIVA SHANKAR**  
170050126 III ECM



**T.V.S.SRIVATSA**  
170050119 III ECM



