



VISHNU INSTITUTE OF TECHNOLOGY (A)



-Let's Excel...

ENCYMOSURE

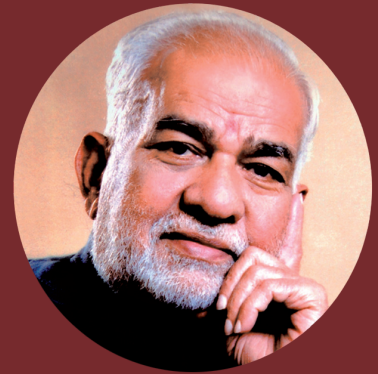
*"A Journey of Thousand miles
begins with a single step...."*

5th ISSUE
JULY 2022



VISHNU INSTITUTE OF TECHNOLOGY

Vishnu Institute of Technology, the scion of Shri Vishnu Educational Society was established in 2008 and is currently the eleventh educational institution to disseminate education under the aegis of this society. Nascent that it is, it combines in its matrix the lofty idealism of its Founder Chairman the Late Padmabhushan Dr. B. V. Raju, a distinguished industrialist, philanthropist and an eminent educationalist; the experience and vigour provided by the Chairman Sri K.V.Vishnu Raju, a man of holistic vision and his team comprising dexterous administrators, reputed academicians and brilliant line students. They constantly strive to make the institution join the ranks of prestigious technical institutions.



**Padma Bhushan
Dr. B. V. Raju**

CAMPUS

The Campus, sprawling over 100 acres, is located in the verdant atmosphere of Vishnupur, Bhimavaram. It is in the vicinity of the town and is well connected by rail and road. VISHNU provides a home away from home to students who opt for a residential mode of education. The hostels are amidst the serene and picturesque green ambience congenial to pursue education.

HANDS ON EXPERIENCE

To make the instruction in VISHNU more practical-oriented, special focus is on hands on experience. The Assistive Technologies Lab works in collaboration with the University of Massachusetts, USA to help students combine technology with a humane approach.

Gadgets for the physically challenged are designed and developed here by students under the guidance of eminent professors both from the Institute and abroad. VISHNU aims at empowering students with technical skills and a "can-do" entrepreneurial spirit. The IBM Software Centre of Excellence in the campus provides students with World-Class education there by increasing the skill set of each student and faculty for a great career.



HELM OF AFFAIRS

Academics are a continuing process of exploration, growth and sustenance. Today information explosion has brought about many changes. Every day brings in new demands. One has to constantly upgrade to cope with the fast emerging trends. Hence it has become imperative to all the stakeholders in education to strengthen themselves with the necessary knowledge, skills and attitude to keep themselves abreast of the rapid changes. The stimulus has been given... it is time for your response.



Sri K. V. Vishnu Raju
Chairman, SVES



Ravichandran Rajagopal
Vice Chairman, SVES

The way I want to inspire as a leader is to keep the faculty focused on the objective of the business of education itself and to keep my students engaged in a meaningful way and not only through the regular academic rigor of running a syllabus but also to identify their inner talent. Therefore it is as much an important attribute that we need to bring into our students in our college and create career track paths through interactions with them. My job is to bring that experience by giving them the right alignment tools to accomplish their goals.

I come with deep insights into quality education in the areas of future skills required to be embedded in the courses offered by our autonomous colleges across Sri Vishnu institutions, and industry relevant knowledge to drive disruptions in higher education. I'm in close coordination with the Vishnu Educational Development and Innovation Centre (VEDIC) at Hyderabad, a campus dedicated to innovations in teaching pedagogy, learning styles and continuous assessment methods for active learning of students.



Sri. K. Aditya Vissam
Secretary, SVES

Along with reaching the pinnacle of academic excellence, we at Vishnu Institute of Technology aim for our students to fill their lives with positivity, hope, and happiness. We motivate them to acquire values and skills that they can rely upon in leading their lives purposefully as individuals and global citizens. In turn, we promise to provide an enabling environment and careful nurturing and honing of their talents through academic and co-curricular exposure. I applaud the efforts of our faculty for their hardwork and also commitment of our parents for having invested their energy and time in helping our students realize their dreams. I wish the Vishnu Institute of Technology to have great success in all its efforts



Dr.D.Suryanarayana
Director & Principal



Prof.K.Srinivas
Vice Principal

Our priority is to provide every one with formal qualification for a rewarding career. In Vishnu, we aim for every student to settle in a suitable career path of choice. Together with the entire supportive community of Vishnu's dedicated faculty and staff, we will do our best to provide you with a caring environment that will enable you to take the right steps towards a brighter future and career success, as well as outstanding student experiences. We pride ourselves in timely completion by students. I therefore wish to urge you to work hard from the very beginning and remain steadfast.

With immense pleasure, I with my faculty team play a vital role in leading the ECE Department of Vishnu Institute of Technology towards development with growing pace of technology. Department magazine EnCynosurE is one such part of initiative, which empowers our students towards overall development of one's self, department and the organization. Through this platform I would like to congratulate the VIT-ECE for continuing the bimonthly department magazine EnCynosurE. I'm sure this technical culture will be a platform to both student and faculty fraternity to exhibit the hidden talents. Finally, my best wishes to the editorial board members and huge applause to the contributors for taking the responsibility and making this happen.



Dr. N.Padmavathy
Head of the Department

VISION OF THE COLLEGE

To empower the students through Academic excellence and Ethics so as to bring about social transformation and prosperity.

MISSION OF THE COLLEGE

- To expand the frontiers of knowledge through quality education.
- To provide value added Research and development.
- To embody a spirit of excellence in Teaching, Creativity, Entrepreneurship and Outreach.
- To provide a platform for synergy of Academy, Industry and Community.
- To inculcate high standards of Ethical and Professional behaviour.

VISION OF THE DEPARTMENT

In pursuit of world class excellence in the field of Electronics and Communication Engineering by empowering quality education and research.

MISSION OF THE DEPARTMENT

- To empower the students with knowledge and competencies in the frontier fields conforming to international standards.
- To enable the students to develop innovative solutions in collaboration with industries and research institutes to meet the local and global needs through project based learning.
- To mould the students professionally with a consciousness of moral values and professional ethical code.

ABOUT THE INSTITUTE

Vishnu Institute of Technology, was established in 2008 by Sri Vishnu Educational Society (SVES), a leading educational trust to promote quality education, under the aegis of eminent philanthropist Padma Bhushan Dr. B.V.Raju (Late). The institute is approved by AICTE and is permanently affiliated to JNTUK, Kakinada. It has got Autonomous status in the academic year 2019-20 and is accredited by NBA and NAAC 'A+' with 3.51 CGPA. We offer 9 UG Courses, 4 PG Programs and we also offer research degree programs in ECE and Mechanical Engineering

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

To impart value based technical education and train students to turn out full- fledged engineers in the field of Electronics & Communication Engineering with an overall background suitable for making a successful career either in Industry/Research or higher education i.e, from A.Y 2008-09 with an intake of 60 students. Presently, the intake of the ECE Department is 180 students. The department has faculty strength of 44 well qualified, experienced and dedicated Post graduates with seven Doctorates and some of them are pursuing Ph.D in different streams and 6 supporting staff.

The department encourages students into postgraduate studies and prepares them for leadership roles in research and development. ECE Department is recognised as Research Centre by JNTU Kakinada in A.Y 2019-20. Along with UG, one M.Tech course in Digital Electronics and Communication Systems from A.Y 2014-15 with an intake of 18 students is also offered.

The ECE department has good infrastructure with 8 different labs namely Microwave Engineering lab, Microprocessor Lab, Digital ICs Lab, Communications Lab, Computer Lab, EDC Lab, LIC Lab, DSP & VLSI Lab. All the labs are fully equipped to provide the present day advanced technology. ECE department has three Centre of excellences, Assistive Technology Lab (ATL), National Instruments lab (NI) and Drone Centre of Excellence(DCE)..

The Department has student's chapters like IETE Student Forum and ISTE Student

Faculty Achievements

1. **Mr.P Sivanantha Maitrey** has been awarded Ph.D. in the faculty of Electronics and Communication Engineering from Andhra University, Vishakapatnam on 28-04-2021.

2. **Mr.K.V.S.H Gayatri Sarman** has been submitted Ph.D thesis on Advanced machine learning techniques for Fault Diagnosis of Brushless DC Motor Drive in Electric Vehicles, dated on 15-07-2022.

R&D

Faculty Publications

1. Lokendra Singh, Niteshkumar Agrawal, Kamal Kumar Gola, Chinmoy Saha, **Prakash Pareek**, Numerical investigation of all optical SR flip-flop using plasmonic metal-insulator-metal (MIM) waveguides, Optical and Quantum Electronics, 2022 (**SCI**)

2. Lokendra Singh, R Saxena, Guo Zho, C Saha, **Prakash Pareek**, A compact realization of Feynman Reversible and NOR logic gate using Plasmonic waveguide based MZI for all optical signal processing, Optics Communications, <https://doi.org/10.1016/j.optcom.2022.128707>, 2022 (**SCI**)

3. Ruben Jose Tom; Awanit Kumar; Syed Basha Shaik; Lydia D Isaac; Vikas Tripathi; **Prakash Pareek**, Car License Plate Detection and Recognition Using Modified U-Net Deep Learning Model, 10.1109/ICSSS54381.2022.9782176. 2022 (Scopus)

4. Priti Maheshwary; W. Vinu; P. Velvadivu; Surendra Kumar Shukla; Prabhat Kumar Srivastava; **Prakash Pareek**, Artificial Intelligence for the Classification of Neuromuscular Diseases Using Dominant MUAP, 10.1109/ICSSS54381.2022.9782227. 2022 (Scopus).

5. **Ch V. V.S. Srinivas, Srilakshmi Gubbala, N. Durga Naga Lakshmi**, Human Emotion Classification Based on Speech Enhancement Using Neural Networks, Advanced Machine Intelligence and Signal Processing, Lecture Notes in Electrical Engineering, Lnee Book Series of Springer link, 2022 (Scopus)

6. Mulagala Sandhya, Tanmay Dhopavkar, Dilip Kumar Vallabhadas, Jayaprakash Palla, **Mulagala Dileep**, and Sriramulu Bojjagani, Leukocyte Subtyping Using Convolutional Neural Networks for Enhanced Disease Prediction, Advanced Machine Intelligence and Signal Processing, Lecture Notes in Electrical Engineering, Lnee Book Series Of Springer link, 2022 (Scopus).



FDP/Workshop/Webinar Attended:

1. **Dr.N.Padmavathy** has attended a FDP on Soft computing Techniques and Hands on with MATLAB, Organized by AITAM, Tekkali.
2. **Dr.S.Sugumaran** has attended an AICTE ATAL FDP on “Inculcating Universal Human Values in Technical Education”, Organized by AICTE.
3. **Dr. A. Prabhakara Rao** has attended a FDP on Applied Deep Learning in Health Care Data Analysis Organized by Eduxlabs in association with Mechanical, IIT Madras.
4. **Dr. B.V.V Satyanarayana** has completed a 4-week Online FDP on Patent Drafting for Beginners, Organized by NPTEL - AICTE during Jan-Feb' 2022.
5. **Dr. B.V.V. Satyanarayana, Mr.B.Prudhvi Raj, Mr.A.M.V Pathi and Mrs.D.Manaswi** attended a FDP on Recent Trends in VLSI and MEMS for IoT Applications., Organized by KL Deemed to be University, E & ICT Academy, NIT-Warangal.
6. **Mr. Alluri Krishna Chaitanya Varma**, has attended an AICTE ATAL FDP on “Inculcating Universal Human Values in Technical Education” Organized by AICTE.
7. **Mrs. G. Srilakshmi** has attended an AICTE ATAL FDP on “Trends in Embedded Systems and IoT” Organized by Seshadri Rao, Gudlavalleru Engineering College.

Online Courses:

1. **Dr. G Prasanna Kumar & Mr. CH.V.V.S. Srinivas** have secured **Top positions (Elite + Gold)** and **N. Durga Naga Lakshmi** has secured **(Elite + Silver)** in a 12 Week online NPTEL Course on Principles of communication systems -1 during Jan - Apr' 2022.
2. **Dr. B.V.V Satyanarayana** has successfully completed the NPTEL Online courses and scored **Elite** Certificate on Microprocessors and Interfacing, Patent drafting for beginners during Jan -Apr' 2022.
3. **Mr. K. Ramesh Chandra** has successfully completed the online NPTEL 8 week course(Elite) in Fundamentals of MIMO Wireless Communication and secured **Elite + Silver** in online NPTEL 8 week Course on Ethics in Engineering Practice Organized by NPTEL, Jan-Mar' 2022 & Feb -Apr' 2022.

4. **Dr. G Prasanna Kumar** has successfully completed all the requirements for SWAYAM-NPTEL **domain certification** in Communication and Signal Processing, Organized by NPTEL, during Jan' 2021 - Apr' 2022.



DEPARTMENT ACHIEVEMENT

Our II B.Tech ECE ATL Students participated in Innovate 4 Menstrual Waste Hackathon organized by TSIC & Water Aid and emerged as winners in the grand finale in best product category and won prize money of Rs.60,000/-.

Faculty Mentors:

- 1.Dr.A Prabhakara Rao
- 2.Mr.KVSH Gayatri Sarman

Student Team:

- 1.E.Sravya - II ECE
- 2.A.Sreeja - II ECE
- 3.D.Narsimha Sai - II ECE



Title: Detachable silicone sanitary Napkins.

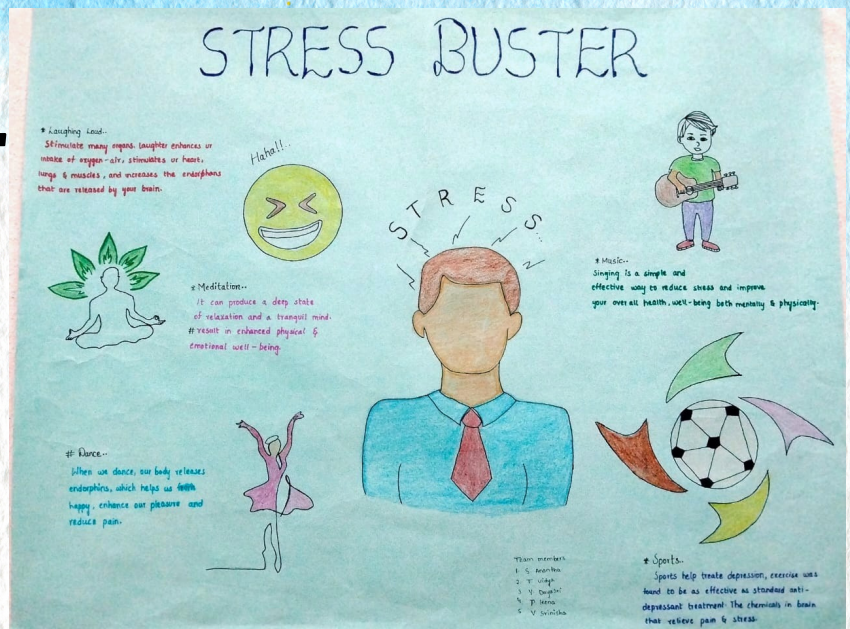
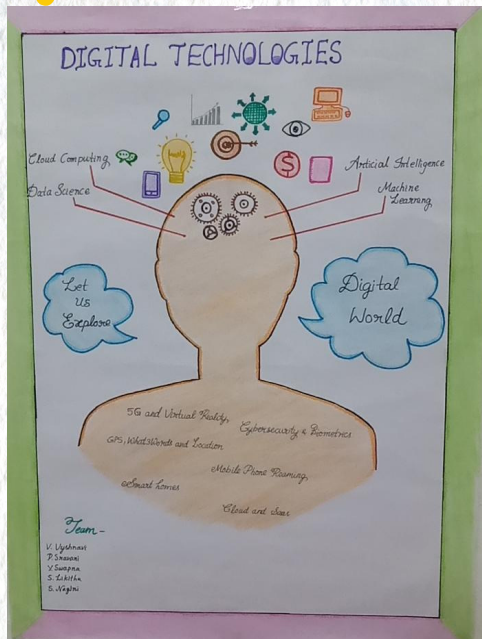
The theme is to reduce the usage of plastic with a reusable silicone mould.



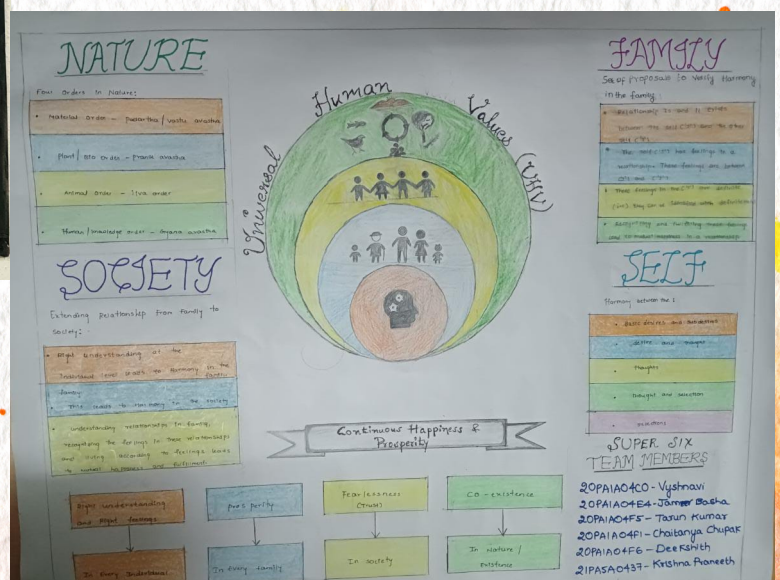
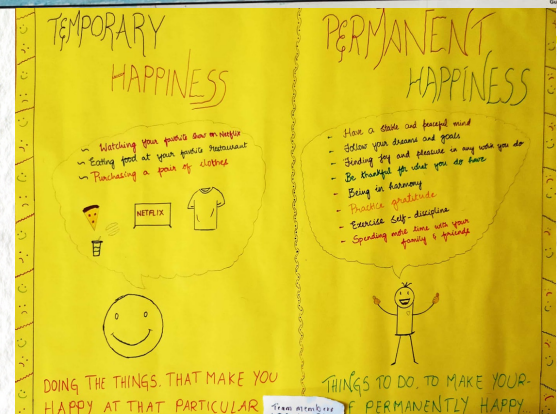
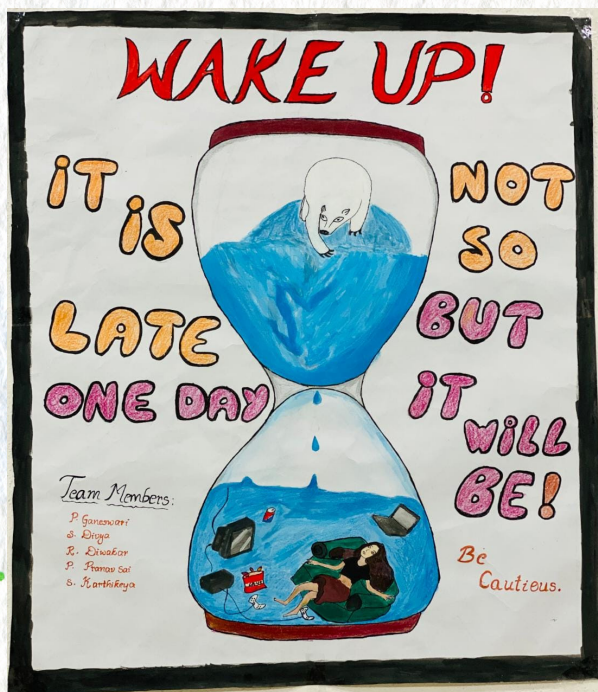
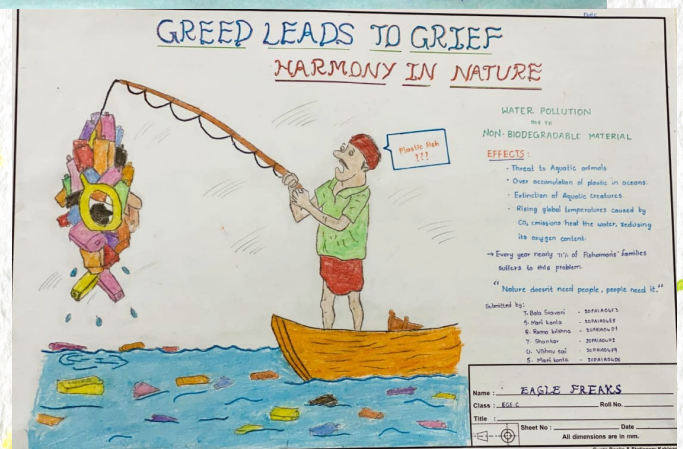
Seniors and Juniors had a fun filled evening with a final touch of interaction and Goodbyes..



"WORLD SYMPHONY"



A lot of views and thoughts based on Human values.....



Mentors:
Dr. S. Sugumaran, Professor
Dr. Prakash Preeek,
 -Associate Professor



CLASS OF 2018-22



ECE A



ECE B



ECE C

5 TIPS TO BE A LEADER



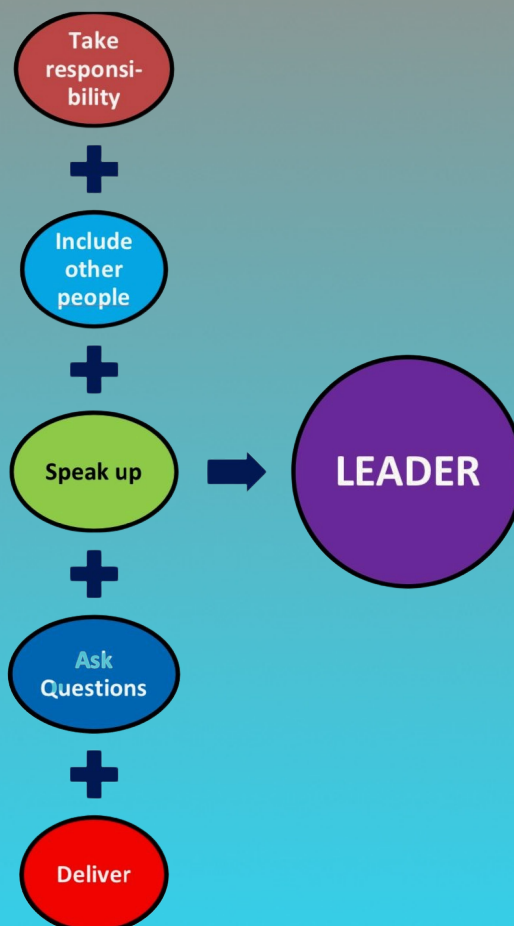
-by Dr. N. Padmavathy
Professor & HOD
Department of ECE

To be leader, you need to be able to demonstrate the following traits at your work place at the time of need. You already may have the traits that are given below but being unrecognized in you.

As a leader,

1. **Take responsibility** – be a volunteer in taking new task: which offers a real chance to either use or develop your skill sets.
2. **Include other people** – A success of an organization depends on the success of the team and not of an individual
3. **Speak Up** – Be ready to share constructive ideas, provide feedback to colleagues as well as your superiors.
4. **Ask Questions** – Shows our dedication and enthusiasm to the team and your ability to see things outside the box.
5. **Deliver** – Keep up to the promises made; getting work done in time.

In addition to above, a good leader is expected to be creative, must be able to guide his/her team



1. Leaders must face conflict to solve problems.

Never run away from conflict by avoiding people. You need to be a solution provider.

2. Leaders must grow people.

Allowing people to grow based on their strengths and weakness will help in your growth. Leaders who fail to be committed in growing and improving their people will likely fail at forming lasting relationships.

3. Leaders must put employees ahead of customers.

If they take care of their people, train them, and empower them, those people will become fully engaged about what they do. In turn, they will reach out and take care of their second most important customer--the people who buy their products or services.

4. Leaders must make the workplace safe.

Research on psychological safety by Amy Edmondson of Harvard indicates that when leaders foster a culture of safety -- meaning employees are free to speak up, experiment, give feedback, and ask for help -- it leads to better learning and performance outcomes. When psychological safety is absent, fear is present. And fear is detrimental to achieving a company's full potential.

5. Leaders must be willing to listen to feedback.

Many leaders don't want to listen to ideas, opinions, and constructive feedback from others about their own leadership. For such leaders, cutting themselves off means that they operate in an ego system, not an ecosystem. A true leader who listens well is open and accountable; he probes and asks questions and listens to understand--with a focus on the future, not on a rehash of the past.

6. Leaders must apply the strength of vulnerability.

Vulnerability is about trust -- the backbone of successful leadership. Employees and leaders who trust one another learn to be comfortable being open to one another around their failures, weaknesses, even fears. Vulnerability-based trust is predicated on the simple--and practical idea - - that people who aren't afraid to admit the truth are not going to engage in the kind of political drama that sucks away everyone's time and energy and, more important, gets in the way of accomplishing goals and results.

7. Leaders must act with love and care.

In a world of empty promises, manipulation, and deception, a true leader cares for the well-being of others; he/she shows commitment to advancing the best interests of those around him/her. The word "love," in a leadership-at-work sense, is not a feeling -- it's a verb; it's packed with action. It shows up in meeting the needs of others to get results, clearing obstacles from people's path, and empowering others to succeed as workers and human beings.

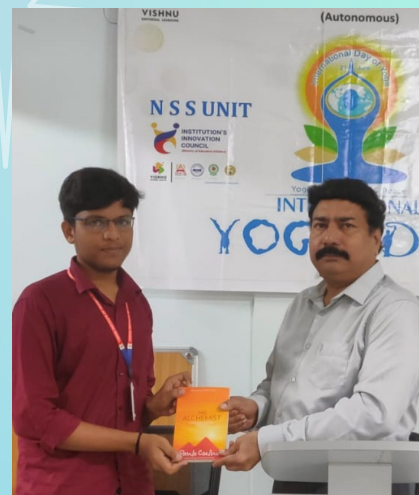
8th INTERNATIONAL YOGA DAY 2022 CELEBRATIONS



As a part of International Yoga Day June 21st 2022, events such as Essay writing and Just a Minute (JAM) were conducted along with celebrations.

M. Ravi - 20PA1A0495

from II ECE bagged 2nd place in Essay writing



ADIEU SENIORS..



-by V. Bavya Sri
19PA1A04H3

Some Goodbye's are Hard While the Hardest part is the Tears hiding Behind our Smiles. This is a rollercoaster of emotions. It is a very happy yet sad moment as my seniors begin their adventure around places and on the other hand, we will be separated. From the day one from the college to understanding subjects, staying in hostels, everything became smoother because of them. It's not that easy to forget the hard deeds they have done for me. From morning classes to evening photo shoots to night biryani's, every moment is cherishable in it's own way.

They have been my Guardian angels, my Strength, pillars of support and of course home away from home. Pizza is good without cheese but it would be great with it. Likewise I'm might be good without them but they have been with me and made me great. Finally, it's hard to say goodbye to all my brothers and sisters. I'll be missing you more than anything.

Your's Cute Little Junior,
BAVYA

HERE'S A RIDDLE FOR YOU

*You have a barrel of oil, and you need to measure out just one gallon.
How do you do this if you only have a three-gallon
container and a five-gallon container?*

| | | |
|----|---|----|
| 28 | 6 | 36 |
| 15 | 1 | 10 |
| 21 | 3 | ? |

FIND THE MISSING NUMBER...!?

*Answers to be revealed in Sept 2022 Edition

EXPERIENCE WITH PEGA:



"We are Snigdha Chilukuri and Bhavana Yannam pursuing 3rd B.Tech ECE. We would like to share the PCSA experience. As Pega is one of the booming Technology present in the market for BPM. Infact it's now the core competitor for other BPM Technologies also. Pega is a powerful code platform that builds agility into the world's leading organization. We are trained under the guidance of Mr. T. Srikanth who is very interactive and helped us a lot . We completed Our CSA which is basic training which every pega developer take first. And for the experience we have done some of the use cases in the pega personal edition using different features in it. While doing these use cases , we face some difficulties. Then our trainer helped us to solve it which increases our knowledge in some related topics. After completing the use case, we have presented the use case to Mr. Sarada and All the colleges UAP students. And also during course, every weekend we wrote exam related Quant, Reasoning and verbal."



Y. Bhavana
IV ECE



Ch. Snigdha
IV ECE

PLACEMENTS

BATCH 2019-23 *

*Till July 31st 2022

| COMPANY | Students Selected | Package(LPA) |
|-----------------|-------------------|--------------|
| TCS Ninja | 7 | 3.6 |
| TCS Digital | 1 | 7.2 |
| INFOSYS(Infytq) | 2 | 3.6 |
| ADAPS | 5 | 5 |

BATCH 2018-22

Top 12 Placements

| Rollnumber | Name | Company | Package(LPA) |
|------------|--|------------------------|--------------|
| 18PA1A04A3 | Neti Veera Badari Narayana Krishna | Capillary | 8.50 |
| 18PA1A04F0 | Thatha Keerthana | Frugal Testing | 8.40 |
| 18PA1A0406 | Allam Satya Sri Srujana | Principal Global | 8.00 |
| 18PA1A0427 | Chilakala Bala Supraja | Principal Global | 8.00 |
| 18PA1A04G1 | Vegulla Lakshmi Sowjanya | Persistent-Viveka | 7.50 |
| 18PA1A04G5 | Vippala Manikanta Reddy | Persistent-Viveka | 7.50 |
| 18PA1A0402 | Adabala John Prasad | Capgemini-Differential | 7.50 |
| 18PA1A0425 | Chennuri Sri Sagar | Capgemini-Differential | 7.50 |
| 18PA1A0427 | Chilakala Bala Supraja | Capgemini-Differential | 7.50 |
| 18PA1A0471 | Kodamanchili Sri Satya Surya Ajaya Sarma | Capgemini-Differential | 7.50 |
| 18PA1A0472 | Kode Durga Sai Rishitha | Capgemini-Differential | 7.50 |
| 18PA1A04F0 | Thatha Keerthana | Capgemini-Differential | 7.50 |

OVERALL PLACEMENTS

Average Package(LPA)

4.33LPA

No. Of. Students

Package(LPA)

12

>=7.5

76

>=5

167

>=3

Editorial Board



Mr. B. Prudhvi Raj
Assistant Professor



Mrs. D. Manaswi
Assistant Professor

Student Members



N. Meghana
20PA1A04B3



K. Jyothsna
20PA1A0477



A. Pavan Teja
20PA1A0405



M. Karthikeya
20PA1A0492



M. Amrutha
20PA1A04A5



Md. Fatima
20PA1A0498



V. Uma Vyshnavi
20PA1A04G5



S. Anantha
20PA1A04D5

V. Mahita
19PA1A0495

M. N. Nirupam
19PA1A0496

V. Bavya Sri
19PA1A04H3

K. Subbaramireddy
19PA1A0484

Shaik Ahmed
19PA1A04E9

M. Sriram
19PA1A04B0

N. Sandeep
19PA1A0B6

M. Jagadeesh
19PA1A04A9

N. Syamkumar
19PA1A04B7

B. Uday
19PA1A0420

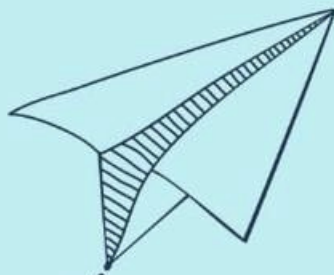
A. Ajay
19PA1A0410

III YEAR

IV YEAR

ECE

2018-2022



Adieu Seniors



Padma Bhushan Dr.B.V.Raju
&

Smt. B. Seetha Devi

"Serve humanity in your Capacity"

