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COLLEGE

Vision of the Institute

To be one of the nation's premier Institutions for Technical and Management Education and a key contributor for Technological and Socio-economic Development of the Nation.

Mission of the Institute

To produce technically competent Engineers and Managers by maintaining high academic standards, world class infrastructure and core instructions.

To enhance innovative skills and multi disciplinary approach of students through well experienced faculty and industry interactions.

To inculcate global perspective and attitude of students to face real world challenges by developing leadership qualities, lifelong learning abilities and ethical values.

CSE Department

Vision of the Department

To be a choice for education in the area of Computer Science and Engineering, serve as a valuable resource for IT industry & society and exhibit creativity, innovation and ethics to cater the global challenges.

Mission of the Department

M1: To educate learners by adapting innovative pedagogies for enhancing their cognitive skills, technical competence and lifelong learning.

M2: To provide training programs and guidance to learners through industry institute partnerships, social awareness programs, internships, competitions and project works to inculcate research skills to address the global challenges.

M3: To provide opportunities for students to practice professional, social and ethical responsibilities using IT expertise with a blend of leadership and entrepreneurial skills.

Program Educational Objectives (PEOs)

PEO 1: Procure employment/progress towards higher degree and practice successfully in the CS/IT profession. (Successful Career Goals).

PEO 2: Address complex problems by adapting to rapidly changing IT technologies. (Professional Competency).

PEO 3: Gain respect and trust of others as effective and ethical team member by demonstrating professionalism and functioning effectively in team-oriented and open-ended activities in industry and society. (Leadership, Ethics and Contribution to Society).

PROGRAM OUTCOMES (PO's)

PO_1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO_2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO_3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO_4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO_5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO_6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO_7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO_8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO_9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO_10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO_11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO_12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PSOs of the Department

Domain Specific Knowledge: Apply the relevant techniques to develop solutions in the domains of algorithms, system software, computer programming, multimedia, web, data and networking.

Software Product Development: Apply the design and deployment principles to deliver a quality software product for the success of business of varying complexity.

TWO DAY WORKSHOP ON ROBOTICS

The Computer Science and Engineering department organized 2 day workshop on “Role of Robotics in Computer Scienc & Engineering use through pick and place robot” Talk is Given by “Mr.SD.Purvez Hussian on 23/04/2020 to 24/04/2020.

This workshop was proved to be very useful for students to understand fundamental concepts of difficult subjects like Control Engineering and Robotics.

The more details about the workshop are as follows:

Objective: Provide Practical knowledge about Robotics.

• To provide Programming Knowledge for controllers, Saliency: One to one workshop, Theoretical and “Hands-on” session, Overview of the Event: After Welcoming the Guest lecturer By HOD, Workshop was proceeded in two sessions, Function of Controllers, Types of Controllers, Types of Robots

Day 1: Assembling of •Programming and installation of programs to Controllers •Robotic arm controlling of arm through• Day 2: Installation of controllers to robotic arm



TWO DAY WORKSHOP ON PYTHON PROGRAMMING

Department of Computer Science and Engineering, Narayana Engineering College, Nellore, has organized a Two day Workshop on Python Programming for III B.Tech CSE Students on 20th January to 21st January 2020 under CSI. Mr.Chandra Shekar, Sr.Trainer, CodeTantra, Hyderabad acted as resource person.



After Inauguration Resource person Starts the session, he has explained the future scope of Python Programming, started his discussion with introduction part of Python Programming, classes and types of objects and the main features, the basic concepts of Python discussed about lists and tuples along with the Problem solving and programming capability on python programming.

On the second day, Mr. Chandrashekar briefed why Python is a useful scripting language for developers, how to write loops and decision statements in Python, how to write dictionaries and pass arguments in Python, how to build and package Python modules for reusability and how to read and write files in Python. He also summarized the aspects related to Regular Expressions. Real time examples were given for practical session.

Dr G. Srinivasulu Reddy-Principal, Dr C. Rajendra - HOD CSE, and Mr. V. Muniraju Naidu-CSI Coordinator participated in the program.

ONE DAY SEMINAR ON AMAZON WEB SERVICES

Department of Computer Science and Engineering, Narayana Engineering College, Nellore, has organized a One day seminar for III B.Tech CSE Students on "Amazon Web Services" on 09th January 2020 under IIIC by Resource Person Mr. V. Rahul Reddy, AWS operations Engineer, Fresh Qube Innovations Pvt. Ltd., Hyderabad.

Dr. C.Rajendra Head of the Department introduced Resource person, followed by Principal Dr. G.Srinivasulu who has addressed the students stating the significance of the event for student's career.



Mr. V.Rahul Reddy has explained the career opportunities on Amazon Web Services. In his words, Amazon Web Services (AWS) is a secure cloud services platform, offering compute power, database storage, content delivery and other functionality to help businesses scale and grow. Securely store all your files on the cloud so we can access them from anywhere.

He explained 10 giant clients attaching huge cheques for AWS.

Netflix, Unilever, Kellogg's, GE, Zynga, MI, Pfizer, Samsung

Dr AVS Prasad-Director-Narayana Engineering & Pharmacy Colleges, Dr G.Srinivasulu-Principal, Dr C. Rajendra-HOD CSE , Mr. V.Muniraju Naidu-IIIC Coordinator participated in the Seminar. 54 III B.Tech CSE students attended for the program.

TWO DAY TRAINING PROGRAM ON APTITUDE & REASONING

Narayana Engineering College, Nellore has organized two day training program on "APTITUDE & REASONING" on 19th & 20th February 2020. The Resource Person Mr. T. Mohana Krishna, DDM, Prakasam Dist., APITA took over the session and created awareness among the students



regarding Problem Solving, Skills in Innovation, Creativity, Communication, Ability to draw Logical Conclusions. In this programme, the resource person explained about the Trains problems, Boats & Streams, Pipes & Cistern, Profit & Loss, Time & Distance, Letter Series, Ages problems, Averages skills that a computer science student must have to get an opportunities in Placements, Choosing a Career, Academic Improvement.

The goal of our training 'Aptitude & Reasoning' are measure of the abilities of a person and gives complete picture of a person's mind, strengthen our ability to draw logical conclusions. This ability is extremely important in our everyday life, which is why it is an inherent part of standard IQ tests.

More than 80 students of III B.Tech (CSE) have attended the session and cleared the queries regarding their Aptitude & Reasoning. The whole programme is conducted with the prior permission of the principal Dr. G. Srinivasulu Reddy, Head of the Department Dr. C. Rajendra, and professor in charge of career guidance cell Mr. V. Muniraju Naidu.

TALK ON LATEST TECHNOLOGIES

Department of Computer Science & Engineering, Narayana Engineering College, Nellore, organized a Talk on latest Technologies on 18/01/2020 by Alumni P.RAHUL BHARGAV, ASST.CONSULTANT, SYNITI .He enlightened the audience on latest technology, RPA (Robotic Process Automation).

- Generally, any desk job in any industry involves tasks that are repetitive in nature and can be automated.
- RPA or Robotic Process Automation allows you to automate such routine and repetitive tasks.
- You don't need to write any code to automate repetitive tasks.

In 2019, the trend of Robots and machine learning is only going to skyrocket, which means RPA will become an invaluable skill to have.



Finally III BT.ECH CSE Students were excited about the session and had discussions with resource person about other latest technologies. Dr.C.Rajendra-HOD CSE and faculty of CSE Department has participated in the Session.

SEMINAR ON AGILE METHODOLOGIES BY ALUMNI

Department of Computer Science & Engineering, Narayana Engineering College, Nellore, organized a Seminar on Agile Methodologies on 27/01/2020 by 2014-18 Batch Alumni A. Aditya Sai, Jr.QA Engineer, COPART, Hyderabad.

He started the session with, AGILE methodology is a practice that promotes continuous iteration of development and testing throughout the software development lifecycle of the project. Both development and testing activities are concurrent unlike the Waterfall model.



Agile is an iterative approach to project management and software development that helps teams deliver value to their customers faster and with fewer headaches. Instead of betting everything on a "big bang" launch, an agile team delivers work in small, but consumable, increment.

Finally III B.TECH CSE Students were shown very interest about the session and had discussions with resource person about scrum model. Dr.C.Rajendra-HOD CSE and faculty of CSE Department has participated in the Session.



HOW TO BE A GOOD PROFESSIONAL IN IT FIELD

Department of Computer Science & Engineering, Narayana Engineering College, Nellore, Conduct a session on Guidance to IV B.TECH CSE Students-"How To Be A Good Professional In IT Field" on 25/01/2020 by 2014-18 batch Alumni Royal Venkatesh, JR SOFTWARE ENGINEER-TCS

Resource Person have give some suggestions to students about the workplace has excellent opportunities for information technology professionals. Almost every traditional brick-and- mortar business now has a need for IT-focused employees, and that's to say nothing of all the tech-based jobs around the world.

Finally IV B.TECH CSE Students were shown very interest about the session. Dr.C.Rajendra-HOD CSE and faculty of CSE Department has participated in the Session.



TECHNICAL TALK ON "JAVA APPLETS" BY ALUMNI

Department of Computer Science & Engineering, Narayana Engineering College, Nellore, organized a technical talk on "JAVA APPLETS" on 25/01/2020 by 2014-18 batch Alumni Ms. P.Sushma Poojitha, Software Engineer, IBM, Bangalore.

She starts her discussion with, Java Applets are usually used to add small, interactive components or enhancements to a webpage. These may consist of buttons, scrolling text, or stock tickers, but they can also be used to display larger programs like word processors or games. Java's incredible portability (the ability to run on many different operating systems and browsers) is what makes it ideal for use on the World Wide Web.

An Applet is a Java program that can be embedded into a web page. It runs inside the web browser and works at client side. An Applet is embedded in an HTML page using the APPLET or OBJECT tag and hosted on a web server.

Finally II B.TECH CSE Students were shown very interest Java Applets. Dr. C.Rajendra-HOD CSE and faculty of CSE Department has participated in the Session.



TWO DAY TRAINING PROGRAM ON APTITUDE & REASONING

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AWARENESS PROGRAM ON WOMEN'S RIGHTS

A awareness program on "Women's rights" in the view of National girl child day by Smt P.J. Sudha , Secretary-cum-senior civil judge, was organized by women's forum of the CSE department on 24-01-20 at srinivasa ramanujan seminar Hall, A-Block. The enormous response was well recognized through the 103 participants. In this session the resource persons P.J Sudha garu has given awareness on Women's rights , Save the girl child, child sex ratios, and creating a healthy and safe environment for a girl child.

The resource person has given the knowledge to the students why is International girl child day has celebrated. On this point resource person has discuss the following points.

- To reflect the successful emergence of girls in different fields
- To raise voice against the girl child violence
- To promote education, nutrition, legal rights and medical care for girls
- To promote girls empowerment
- To raise voice against girl child marriage, discrimination, etc

The session was very interested and many of CSE Girl Students were actively interacted with the resource person & the students were highly impressed by the knowledge of resource person and had interaction with them on the above points. The resource person conclude this session with effective theme 'Empowering Girls for a Brighter Tomorrow'.



AWARENESS PROGRAM ON WOMEN'S RIGHTS

An industrial visit to a Professional Society body named Computer Society of India ,Education Directorate at Chennai was organized for the III CSE students of B.Tech program on the 15th of February 2020. The student were given an introduction about the Personal Branding which includes Creative Communication, Presentation & Negotiation, SWOT Analysis etc. Students also had a great opportunity to interact with the Resource person, Mrs. Sri Vidya, Entrepreneur who was very liberal to share her time to answer questions posed by the students of the CSE department. Total 78 students got benefited from this visit. The visit ended with a felicitation to Mrs. Sri Vidya, by the students of third year and the faculty members of CSE Department.



SEMINAR ON BLUE TOOTH AND ARCHITECTURE

A seminar on Bluetooth architecture & applications Mr.R. Nava Teja Reddy, Associate Professor, Dept of CSE, NECN on 14/02/2020 Communication can take place between a master node and a slave node in either one-to-one or one-to-many manner. However, no direct communication takes place between slaves. Each station, whether master or slave, is associated with a 48-bit fixed device address. on. Bluetooth is managed by the Bluetooth Special Interest Group (SIG), which has more than 35,000 member companies in the areas of telecommunication, computing, networking, and consumer electronics. The IEEE standardized Bluetooth as IEEE 802.15.1, but no longer maintains the standard. The Bluetooth SIG oversees development of the specification, manages the qualification program, and protects the trademarks. A manufacturer must meet.



GUEST LECTURE ON PROJECT GUIDELINES AND DEMONSTRATION

A Guest lecture on Project Guidelines and Demonstration by Mr.G.Pavan Kumar Sr Software Engineer ASP Solutions Bangalore on 21/03/2020. The project plan should include the following: Project title and team members An abstract: in one paragraph or two, describe briefly the project scope and what you hope to accomplish. Project schedule: It should include a list of subtasks that you plan to accomplish. For each subtask, describe how do you plan to approach it, who in your team is primarily responsible for it and the deadline for completing it. You should allocate time for literature search, preparing the final report, and final presentation, in addition to the reading/simulation work you plan to do. List of references: this includes papers and documents and possibly web links that you have found that are relevant to your project topic. Please include complete citation of each item: author, title of the article, journal or book name, and if appropriate the URL where you get the information.



PROFESSIONAL SOCIETY ACTIVITIES- GUEST LECTURE ON COMPUTER ORGANIZATION

Guest lecture on Computer Organization was conducted by CSE Department on 02nd February, 2020 in association with Computer Society of India, at Srinivasa Ramanujam Seminar Hall in A-Block, NEC, Nellore. Resource person was Prof. V.Anandam, SRM college. He explained the basic concepts of computer organization. He delivered the concept on Bus Architecture and Instruction formats of a computer is playing a vital role for different flavors of Operating Systems.



Computer Organization refers to the way in which the hardware components of a computer system are arranged and interconnected. It implements the provided computer architecture. Computer Organization is to be defined after the decision of the computer architecture. Computer Organization refers to the way in which the hardware components of a computer system are arranged and interconnected.

PAPERS PUBLICATION FOR THE ACADEMIC YEAR 2019-20

S. No	Name of the Author	Title of Paper	Name of the Journal	Year of Publication	ISSN No.
1.	Dr. C. Rajendra	Detecting and Tracking Objects in Videos and CAM using OpenCV	The International Journal of Analytical and Experimental Model Analysis	June, 2020	0886-9367
2.	Mr. Muniraju Naidu Vadlamudi	Secure and Efficient Routing towards Quality of Service and Bandwidth Optimization for Wearable Body Area Networks	International Journal of Advanced Science and Technology	May, 2020	723-738
3.	Mr. C. Rama Mohan	Detecting and Tracking Objects in Videos and CAM using OpenCV	The International Journal of Analytical and Experimental Model Analysis	June, 2020	0886-9367
4.	Mr. S. Tamilselvan	Detecting and Tracking Objects in Videos and CAM using OpenCV	The International Journal of Analytical and Experimental Model Analysis	June, 2020	0886-9367

FACULTY PARTICIPATION IN CONFERENCES DURING THE ACADEMIC YEAR 2019-20

S. No	Name of the Author(s)	Title	National / International	Name of the Conference	Year	Organized by
1	Dr, C. Rajendra, Mr. C. Ramamohan	Biomedical Image Fusion Based on NSCT and SR and Frequency Partition	International	International Conference on Engineering Science Technology and Management (ICESTM-2020)	25 th April, 2020	NEC, Nellore
2	Dr. C. Rajendra, Dr. J. Suresh Babu	Design and Development of Multi-Dimensional Handprints Detection using Sequential Forward Selection Algorithm	International	International Conference on Engineering Science Technology and Management (ICESTM-2020)	25 th April, 2020	NEC, Nellore
3	SK Saddam Hussain, Dr. J. Suresh Babu	Credit Card Frauds Detection and Analysis using Predictive Modeling	International	International Conference on Engineering Science Technology and Management (ICESTM-2020)	25 th April, 2020	NEC, Nellore
4	Mr. V. Muniraju Naidu Mr. T. Saiprasad Reddy	Fast Data Transmission for Heterogeneous Wireless Sensor Networks	International	International Conference on Engineering Science Technology and Management (ICESTM-2020)	25 th April, 2020	NEC, Nellore
5	Mr. R. Navateja Reddy Dr. J. Suresh Babu	Implementation of Pick Pockets Identification System from Multi-Scale Public Records	International	International Conference on Engineering Science Technology and Management (ICESTM-2020)	25 th April, 2020	NEC, Nellore

FACULTY PARTICIPATION IN CONFERENCES

6	C. Rama Mohan, R. Nava Teja Reddy	All-In-Focus Imaging using Frequency Partition and Normalization	International	International Conference on Engineering Science Technology and Management (ICESTM-2020)	25 th April, 2020	NEC, Nellore
7	T. Saiprasad Reddy, V. Muriraju Naidu	Dynamic Auto Tuning and Auto Selection of Cloud	International	International Conference on Engineering Science Technology and Management (ICESTM-2020)	25 th April, 2020	NEC, Nellore
8	T. Sai Prasad Reddy R. Nava Teja Reddy	Identification of Deceptive Movie Reviews using Datamining Techniques	International	International Conference on Engineering Science Technology and Management (ICESTM-2020)	25 th April, 2020	NEC, Nellore
9	Mrs G. Sravani, Mrs D. Saritha	Anti Shoulder Surfer Security System	International	International Conference on Engineering Science Technology and Management (ICESTM-2020)	25 th April, 2020	NEC, Nellore
10	Mrs. D. Saritha, Mrs. G. Sravani	Provisioning High Security to Cloud Data Through Data and Key Fragmentation	International	International Conference on Engineering Science Technology and Management (ICESTM-2020)	25 th April, 2020	NEC, Nellore
11	G. Sravani, V. Muriraju Naidu	Discovery of Suicide Allied Posts in Twitter Data Creeks	International	International Conference on Engineering Science Technology and Management (ICESTM-2020)	25 th April, 2020	NEC, Nellore
12	Mr V. Muniraju Naidu, Mr T. Saiprasad Reddy	Fast Data Transmission for Heterogeneous Wireless Sensor Networks	International	International Conference on Engineering Science Technology and Management (ICESTM-2020)	25 th April, 2020	NEC, Nellore

STUDENTS EXTERNAL PARTICIPATIONS

19771A0566	Ramya	Online C Programming Quiz	Santhiram Engineering College, Nandyal	15-05-2020
18711A05A3	T Yesna Srija	National Level Quiz Competition Computer Fundamentals & Ms Office Tools	Siddhartha College Of Arts & Science	28-05-2020
18711A05A6	Vallepu Pavani	National Level Quiz Competition Computer Fundamentals & Ms Office Tools	Siddhartha College Of Arts & Science	28-05-2020

STUDENTSPARTICIPATION IN OTHER COLLEGES

18711A05A7	Veluru Akhil	National Level Quiz Competition Computer Fundamentals & Ms Office Tools	Siddhartha College Of Arts & Science	28-05-2020
18711A05B3	Modali Manasi	National Level Quiz Competition Computer Fundamentals & Ms Office Tools	Siddhartha College Of Arts & Science	28-05-2020
18711A05B3	Modali Manasi	Online Quiz Android	Vignan's Institute Of Engineering For Women	27-05-2020
18711A0561	Mohammed Zeba Fathima	National Level Quiz Competition Computer Fundamentals & Ms Office Tools	Siddhartha College Of Arts & Science	29-05-2020
18711A0564	Muppirala Sai Sindhuja	National Level Quiz Competition Computer Fundamentals & Ms Office Tools	Siddhartha College Of Arts & Science	28-05-2020
18711A0566	Nagaraja Tarun Kumar	National Level Quiz Competition Computer Fundamentals & Ms Office Tools	Siddhartha College Of Arts & Science	28-05-2020
18711A0566	Nagaraja Tarun Kumar	National Level Quiz Competition Python Programming	Indian Servers	28-05-2020
18711A0568	N. Teja Swaroopa	National Level Quiz Competition Computer Fundamentals & Ms Office Tools	Siddhartha College Of Arts & Science	28-05-2020
18711A0569	N.Manoj Sai	National Level Quiz Competition Computer Fundamentals & Ms Office Tools	Siddhartha College Of Arts & Science	28-05-2020
18711A0570	Kartheeka Neelakantam	National Level Quiz Competition Computer Fundamentals & Ms Office Tools	Siddhartha College Of Arts & Science	28-05-2020