



TECH ERA

STUDENT TECHNICAL MAGAZINE

**VOL-X
2024-25, issue 1**



DEPARTMENT OF IT (LBRCE)

**VOLI-X
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FORE WORD

Department of Information Technology involves researching, designing, developing in current trends of computing systems. It gave me great satisfaction to know that department has come up with its own magazine, "Tech- Era". The way they presented it was unique, very creative and hope it will serve as a motivational and technological source for the students to exhibit their inherent talents and improve their skills. I would like to express my appreciation to whole team members of Tech-Era including faculty coordinators who really made it possible.



Dr. K. APPA RAO
PRINCIPAL

Congratulate the department of IT, LBRCE for bringing out the prestigious bi-annual magazine, Tech-Era. I am sure that the magazine will provide a platform for students and faculty members to expand their technical knowledge and sharpen their hidden literary talent and also strengthen all round development of the students. My congratulations to the editorial board who took the responsibility for the arduous task Dr. B. Srinivasa Rao most effectively.



Dr. B. Srinivasa Rao
Professor & HOD



DEPARTMENT OF INFORMATION TECHNOLOGY

VISION AND MISSION

DEPARTMENT VISION

To emerge as one of the most preferred departments for the budding engineers, aspiring to be successful IT professionals

DEPARTMENT MISSION

DM1: To impart quality education with a well-designed curriculum, consistent with industry requirements, that equips the student to face the career challenges.

DM2.: To extend the student's learning beyond the curriculum, through workshops on cutting edge technologies.

DM3: To strengthen creativity and team spirit of the students by providing a conducive environment, preparing them to face the challenges posed by the IT industry.

DM4: To develop life-long learning, ethics, moral values and spirit of service so as to contribute to society through technology.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates of Information Technology programme will be:

PEO 1: Pursue a successful career in the area of Information Technology or its allied fields.

PEO2: Exhibit sound knowledge in the fundamentals of Information Technology and apply practical Experience with programming techniques to solve real world problems.

PEO3: Demonstrate self-learning, life-long learning and work in teams on

multidisciplinary projects.

PEO4: Understand the professional code of ethics and demonstrate ethical behavior, effective Communication and team work and leadership skills in their job

PROGRAM OUTCOMES (POs):

Graduates of Information Technology programme will have the ability to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
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.
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.
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.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
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.
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. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

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

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

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.

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.

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.

PROGRAM SPECIFIC OUTCOMES (PSOs):

Graduate of the Information Technology will have the ability to

PSO1: Organize, Analyze and Interpret the data to extract meaningful conclusions.

PSO2: Design, Implement and evaluate a computer-based system to meet desired needs.

PSO3: Develop IT application services with the help of different current engineering tools.

About the Department

The department of Information Technology was established in the year 1999 with an intake of 40 seats in UG program. Student intake is increased from 40 to 60 in the year of 2001, 120 students in the year 2019. It is the one of the most emerging

programmes in LBRCE. As IT plays a remarkable role in almost all sectors, due to this the need of Information Technology Engineers increased who could gain knowledge in recent technologies. Our department is intended to train the students in elementary courses and cutting-edge technologies like Cloud Computing, Android application, Big data, Digital marketing, Social networking and Digital communication for solving many social and business problems.

The department strives to be a centre for excellence, innovation and research with dedicated faculty, highly motivated students, state-of-the-art facilities and an innovative teaching-learning environment. The department was accredited by the National Board of Accreditation (NBA) for 3 years i.e 2008 and 2019 (Under Tier-I), valid up to Academic Year: 2021-22. The department has consistently demonstrated its potential for excellent research through sponsored research projects, consultancy work, high-quality scholarly publications, text books, open-source software and other professional contributions. Several research and consultancy projects are also underway as part of various MoUs with reputed industry and academic organizations. Our students have consistently achieved 100% placements and have demonstrated a high level of success in pursuing post graduates at top universities of the world as per QS World University Rankings, like Massachusetts Institute of Technology, Carnegie Mellon University, Yale, Columbia, Purdue and in the IITs & IIMs.

Our future Software Engineers, Entrepreneurs, and Researchers are encouraged with inventive approach. We have an excellent infrastructure and advanced labs to expedite our students. The department facilitates innovative practices such as student internships, mini and major projects to meet the requirements of employment, teaching-learning process and entrepreneurship. To upgrade the knowledge of students, department offers many tools and Software applications. The LBRCE-CSI students' chapter has been actively organizing events like Technical Seminars, Workshops and Guest lecturers

The background is a vibrant blue gradient with a fine, diagonal line pattern. Overlaid on this are various abstract elements: several interlocking gears in shades of teal and light blue, some with a metallic texture. A network of thin white lines connects small dots, resembling a circuit board or a data network. There are also some white arrowheads pointing upwards. The overall aesthetic is technological and modern.

STUDENT ACHIEVEMENTS

NIT Warangal Internship

Month: July

About Internship:

A group of students from the Department of Information Technology had the valuable opportunity to pursue an internship at the National Institute of Technology (NIT), Warangal. The internship was designed to provide participants with hands-on exposure to advanced technologies, research methodologies, and real-time problem solving under the guidance of experienced faculty and researchers.

During the program, students were introduced to cutting-edge domains such as Artificial Intelligence, Machine Learning, Data Science, and Emerging Computing Technologies. They worked on mini-projects and case studies, gaining practical skills while applying theoretical knowledge to real-world challenges.





The internship not only enhanced their technical expertise and research aptitude but also improved their teamwork, communication, and project management skills. This experience at NIT Warangal proved to be a significant step in preparing students for higher studies, industry challenges, and innovation-driven careers.

One Week Workshop On Web Development Basics Bootcamp

Month: July

Name Of Coordinators: Mrs.M.HemaLatha ,Sr.Assistant Professor, Dept of IT ,Mr.Ch.SambasivaRao, Sr.Assistant Professor, Dept of IT

Objective of the event: The main objective of this workshop was to introduce students to the methods of designing websites using the Bootstrap framework which covers HTML, CSS and includes various methods and techniques that the web

designers can use to create attractive and user-friendly designs.



Description:

Resource Person Mr. Bhavaraju Sai Sasank started workshop and discussed the Basics of HTML Elements, Nesting Elements, Block versus inline elements, empty elements, Attributes, boolean attributes, single or double quotes.

Anatomy of an HTML document; Whitespace in HTML; Entity references/special characters; HTML Comments.

Title, Metadata, character encoding, description and SEO o Custom icons, adding CSS and JavaScript to the page, document language o Structure in web pages. Headings and Paragraphs .

Lists: Unordered, Ordered, (they don't cover description lists), nested lists. o Emphasis and Importance, but not style.

Creating hyperlinks. o Anatomy of a link, the title attribute, block level links.

URLs and paths, block fragments and ids, absolute and relative URLs.

Link best practices, download attribute, email links.

. Multimedia and Embedding

Images in HTML

Video and audio content.

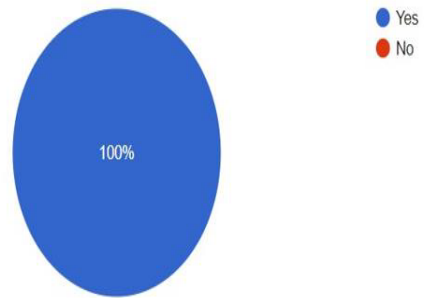
Other embedding techniques. We'll probably just mention this...

4. Adding vector graphics.

5. Responsive images

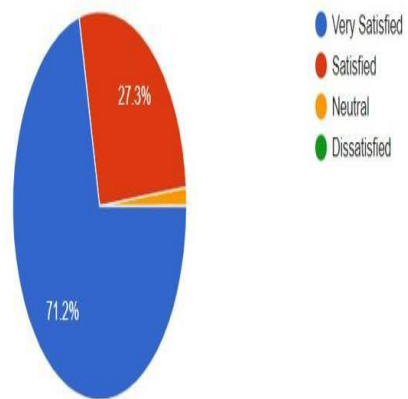
Will you recommend our trainings to your friends ?

66 responses



What is your overall satisfaction with the workshop?

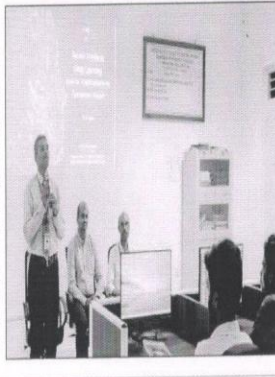
66 responses





గెస్ట్ లెక్చర్ కంప్యూటర్ విజన్ అండ్ డీప్ లెర్నింగ్ అప్లికేషన్స్ అనే అంశం మీద ప్రారంభోత్సవం..

పెన్సిల్ ఉర్వా పరిశోధన : పెన్సిల్ ఉర్వా పరిశోధన కార్యక్రమం అనే అంశం మీద గెస్ట్ లెక్చర్ కంప్యూటర్ విజన్ అండ్ డీప్ లెర్నింగ్ అప్లికేషన్స్ అనే అంశం మీద ప్రారంభోత్సవం..



డిజిటల్ యుగం లో వెబ్ డెవలప్మెంట్ ముఖ్యం

నమస్తే-శ్రీ తేజ స్కూల్, మైలవరం: డిజిటల్ యుగంలో వెబ్ డెవలప్మెంట్ ముఖ్యమని సాయి శశాంక్ ఇన్స్పైస్ ప్రైవేట్ లిమిటెడ్ సీ ఈవో భావరాజు విద్యార్థులకు వెల్లడించారు. స్థానిక లక్ష్మిరెడ్డి బాలరెడ్డి ఇంజనీరింగ్ కళాశాల ఇన్స్పైస్ టెక్నాలజీ విభాగం ఆధ్వర్యంలో సి.ఎస్.ఐ రెండవ సంవత్సరం చదువుతున్న విద్యార్థులకు సోమవారం వెబ్ డెవలప్మెంట్ బేసిక్స్ బూట్ క్యాంప్ పై శిక్షణ కార్యక్రమాన్ని నిర్వహించారు. ఈ కార్యక్రమానికి ముఖ్యఅతిథిగా హాజరైన భావరాజు మాట్లాడుతూ బూట్ క్యాంపులు ప్రాథమికాల నుండి ప్రారంభించి అభ్యాసకులను ప్రోఫెషనల్ స్థాయికి తీసుకు వెళ్లే క్రమంలో సమర్థవంతంగా నేర్పించడంలో బాగా ప్రాచుర్యం పొందాయని ఆయన అన్నారు. కళాశాల వైస్ ఛిన్మిపాల్ డాక్టర్ బి.రమేష్ రెడ్డి మాట్లాడుతూ యూజర్ ఇంటర్ఫేస్, యూజర్ అభివృద్ధి, అప్లికేషన్ ఫ్రేమ్ వర్క్ చేసే వారికి ఉద్యోగ అవకాశాల తో పాటు ప్రోఫెషనల్ గా ఎదుగుదలలో బలమైన



పునాదిని ఇస్తుందన్నారు. ఇన్స్పైస్ టెక్నాలజీ విభాగాధిపతి డాక్టర్ బి. శ్రీనివాసరావు మాట్లాడుతూ ఐటి ఉద్యోగాలలో ప్రస్తుతం ఎదుర్కొంటున్న సమస్యలు, ప్రస్తుత సమాజంలో టెక్నాలజీ శరవేగంగా మారుతున్న కారణంగా నైపుణ్యాలను నిరంతరం అధ్యయనం చేయటం అవసరమన్నారు. ఈ కార్యక్రమానికి హేమలత సాంబశివరావు, కో-ఆర్డినేటర్లుగా వ్యవహరించారు.

One Week Workshop On Programming Foundation Bootcamp

Month :July

Name Of Coordinators :Mr.Ch.Poorna Venkata Srinivasa Rao., Dept. of IT, Mrs. J. Geetha renuka., Dept. of IT,Mrs. D. Vijaya Sri.,Dept of IT.

Objective of the event: The Department of Information Technology, LBRCE, has organized a value added course on programming foundation bootcamp such as Basics of C language, Structure of C programming ,get a ability to write their own code for a duration of 6 days i.e., from 22- 07- 2024 to 27-07-2024. The second year students are the target audience. The main objective of this event is to introduce these students to the concepts of programming foundation in C language and key technologies that are widely used in the software industries. The program was inaugurated by Dr. B Srinivasarao, HOD, and Dept. of IT. The core objective of this workshop is to train the students to build programming skills in C. Since this is an session on programming foundation bootcamp which are attended by second year students.



ORGANIZED BY DEPARTMENT OF INFORMATION TECHNOLOGY



Description :

The Department of Information Technology organized a six-day workshop on C Programming for first-year students, aimed at building a strong foundation in programming concepts. The sessions covered the basics of programming languages, including data representation, ASCII codes, number systems, memory usage, algorithms, and flowcharts.

Students were then introduced to the fundamentals of C, such as tokens, variables, data types, modifiers, operators, and control statements. The workshop also explained the structure of a C program, including documentation, linking, definitions, declarations, and the use of main and sub-programs.

In addition, participants learned about conditional and looping statements, arrays, derived data types, and nested loops, with practical implementations throughout.

The workshop offered students a comprehensive understanding of C programming and enhanced their ability to approach problem-solving through coding effectively.



Independence Day Celebrations

Month :August

Objective of the event: The primary objective of the event was to raise awareness about the historical significance of the freedom movement and to inspire younger generations to appreciate the values of liberty, unity, and resilience. Through interactive exhibits, cultural performances, and educational sessions, the program sought to deepen public understanding of the struggles faced by freedom fighters and the enduring relevance of their ideals.

Description :

As part of the Independence Day awareness celebrations, students from the IT Department took the initiative to organize a powerful motivational speech session that resonated deeply with the audience. The event was designed to inspire fellow students to reflect on the values of determination, innovation, and national pride. The speaker, invited by the student organizers, shared compelling insights on overcoming challenges, setting ambitious goals, and contributing to the nation's progress through technological excellence. Drawing parallels between the resilience of freedom fighters and the perseverance required in modern careers, the session encouraged attendees to embrace their potential and strive for meaningful impact. The atmosphere was charged with enthusiasm and reflection, leaving participants motivated to pursue their aspirations with renewed vigor and a sense of responsibility toward the country.



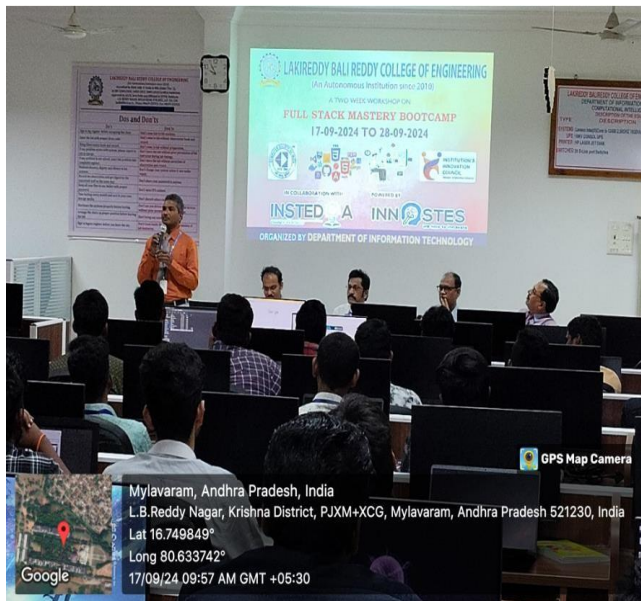
Workshop On Full Stack Mastery Bootcamp

Month :September

Name Of Coordinators :Mr.Ch. Sambasiva Rao, Sr.

Assistant Professor, Dept of IT , Mrs. Rehana Begum, Assistant Professor, Dept of IT , Mr. B. Ravindra Chantibabu, Assistant Professor, Dept of IT.

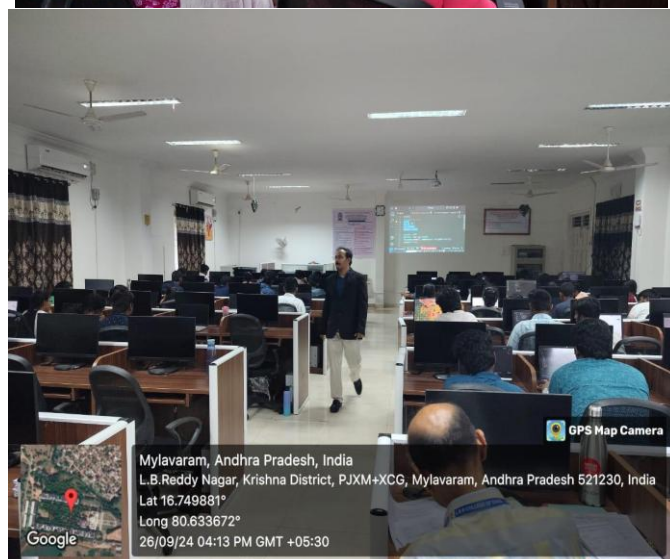
Objective of the event:The main objective of this workshop was to introduce students to the methods of designing websites using the Bootstrap framework which covers HTML, CSS, JAVA SCRIPT, REACTJS, NODEJS WITH EXPRESS FRAME WORK and includes various methods and techniques that the web designers can use to create attractive and user-friendly designs.



Description:

The Workshop on Web Development was inaugurated on 17th September 2024 by Dr. B. Ramesh Reddy (Vice Principal), Dr. M. Srinivasa Rao (Dean of Academics), Dr. B. Srinivasa Rao (HOD–IT), the conveners, and faculty members, along with Mr. Bhavaraju Sai Sasank, CEO of Innostes Solutions Pvt. Ltd., Vijayawada, and his team.

The sessions, led by Mr. Sasank, introduced students to HTML fundamentals such as elements, attributes, document structure, semantic and non-semantic tags, special characters, and comments. This was followed by CSS concepts including selectors, box model, layout, typography, colors, and animations, with hands-on activities where students worked in teams on mini-projects.



Further, the workshop covered JavaScript essentials like text boxes, arrays, embedding techniques, responsive images, and vector graphics,

giving participants practical coding experience. Advanced sessions introduced Node.js (installation, modules, dependency management, and API creation) and MongoDB (installation, functions, routing, and database handling).

The workshop provided students with comprehensive exposure to front-end and back-end development, enhancing both their theoretical knowledge and practical skills in building modern web applications.





PROBLEM SOLVING USING PROGRAMMING LANGUAGE Bootcamp

Month: September

Name Of Coordinators :Mr. K.Raviteja, Sr. Assistant Professor, Dept of IT 2. Mrs.R. Pavitra, Assistant Professor, Dept of IT 3. Mr. K. Lakshmi Devi, Assistant Professor, Dept of IT.

Objective Of Event:

The objective of a problem-solving using programming language workshop is to equip participants with the necessary skills and techniques to approach, analyze, and solve computational problems using programming. Specifically, the goals include Develop Logical Thinking, Enhance Algorithmic Skills, Programming Proficiency, Hands-on Experience, Debugging and Optimization, Collaborative Problem Solving, Preparation for Competitions



Description:

The Department of Information Technology organized a Bootcamp on Problem Solving Using Programming Language to strengthen the coding and logical thinking skills of students. The program was designed to introduce participants to the fundamentals of programming and enhance their ability to analyze problems and implement solutions effectively.

The sessions covered basic programming concepts, control structures, arrays, strings, functions, and operators, with a strong emphasis on hands-on practice and real-time coding exercises. Students were guided to apply algorithms and flowcharts in solving problems, helping them understand the importance of structured programming.

Through interactive sessions and practical assignments, the bootcamp encouraged students to develop a logical approach, critical thinking, and coding confidence, thereby laying a strong foundation for advanced programming courses and future technical challenges.



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MISION:

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To extend the student's learning beyond the curriculum, through workshops on cutting edge technologies.

To strengthen creativity and team spirit of the students by providing a conducive environment, preparing them to face the challenges posed by the IT industry.

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PEO 3: Able to demonstrate self-learning, life-long learning and work in teams on multidisciplinary projects.

PEO 4: Able to understand the professional code of ethics and demonstrate ethical behaviour, effective communication, team work and leadership skills in their job.

Recent Trends in Deep Learning and its Applications in Computer Vision

Month : October

Name Of Coordinators : :Mr. K. Rajasekhar, Sr Asst. Professor, IT Dept, LBRCE. Mr. V .V. Krishna Reddy, Sr Asst. Professor, IT Dept, LBRCE.

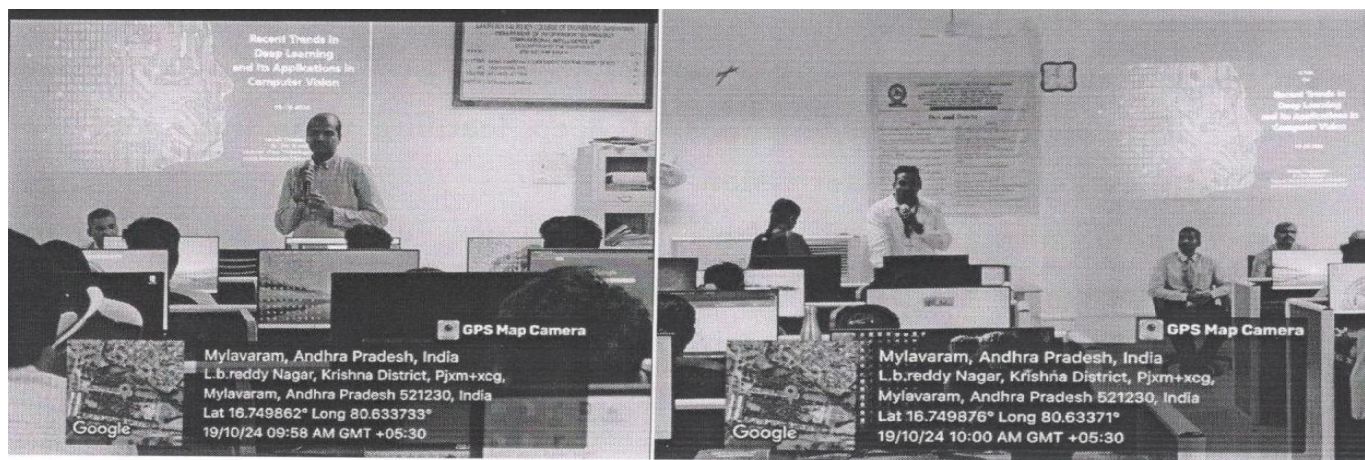
Objective of the event: The objective of the guest lecture was to introduce student's Recent Trends in Deep Learning and its Applications in Computer Vision. The session aimed to provide insights into the practical applications and cutting-edge research in this field, bridging the gap between theoretical knowledge and real world applications in industries such as healthcare, automotive, surveillance and more.

Description :

Guest lecture was conducted by Dr. Suresh Thommandaru an Industry expert and Sr. Data Scientist at Happiest Minds Technologies, Bangalore. The session began with welcome address by Dr. B.Srinivasa Rao, HoD IT Dept, acting as the workshop's convener and Mr. K.Rajasekhara, Sr Asstt.Professor, and Mr V V Krishna Reddy, Sr Asstt.Professor acting as the guest lecture coordinator.

During the lecture, Dr Suresh Thommandaru covered variety of topics, including: Fundamentals of Deep learning: Basics of neural networks, CNNs, RNN's and GAN. Applications in computer vision : Key applications like Image classification, object detection using YOLO, Image segmentation and facial recognition.

•Industry Use cases: Real world implementations in vehicle number detection and production detection in industry. The session concluded with an interactive Q & A where students engaged with the speaker to clarify their doubts and discuss potential projects.

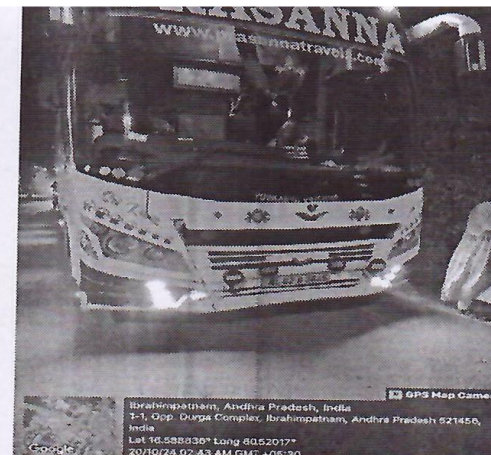


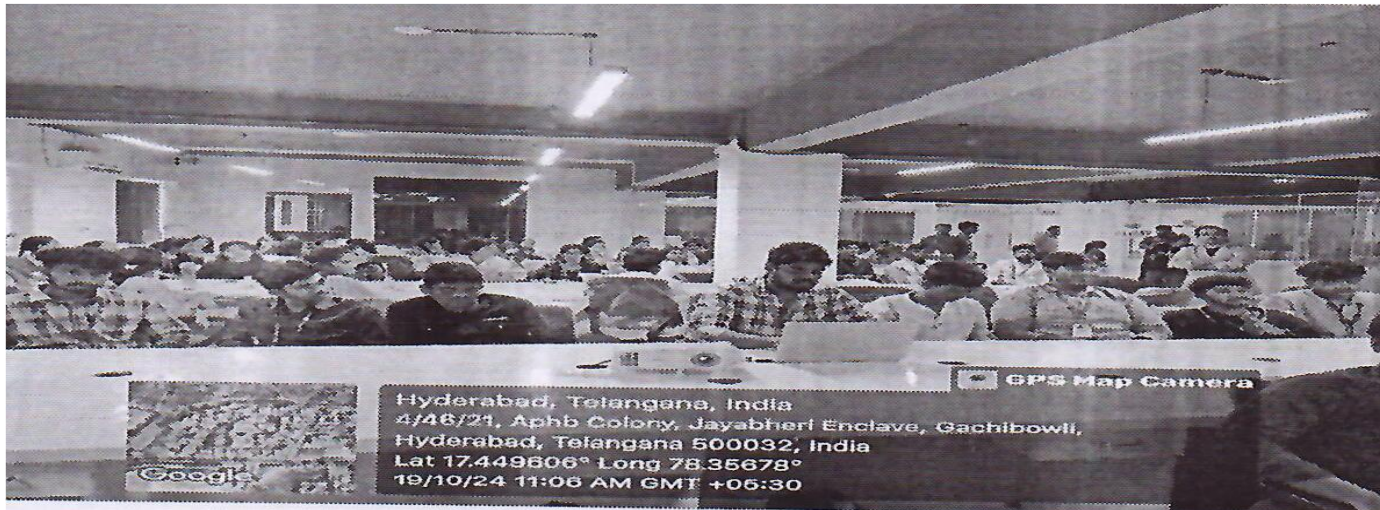
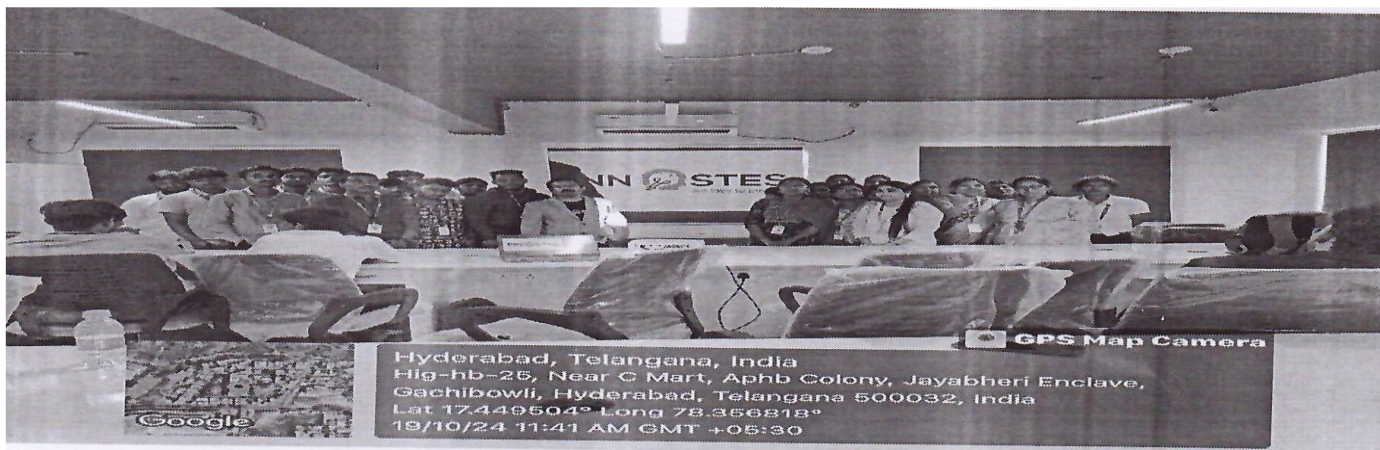
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Visiting Innostes Pvt Ltd must have been a valuable experience. Here's a breakdown of what your group might have observed and learned during this visit the Company Operations, we likely got an inside look at how Innostes operates, from their daily processes to the technology they use. This would help you understand how theoretical knowledge from your btech courses is applied in real-world scenarios. Industry Trends.

Observing the latest trends and technologies used by the company, such as automation, AI, or IoT, would give you insights into current industry standards and future directions. Work Culture, experiencing the company's work environment and culture could provide a glimpse into the professional world, including teamwork, communication, and problem-solving in a corporate setting.

Project Management to Understanding how projects are managed, from conception to execution, would be crucial. We might have learned about project planning, resource allocation, and quality control. Technical Insights we likely got technical insights into the specific domain the company works in, be it software development, hardware engineering, or another field. This includes understanding the tools and methodologies they use. Networking: Interacting with professionals and possibly getting advice and tips from them would be invaluable for your future career.





HackIT!2K24

Month : October

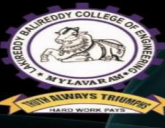
Name Of Coordinators: Mr. B. Sarath Chandra, Sr. Assistant Professor, Dept of IT ,Mr. K. Raviteja, Sr. Assistant Professor, Dept of IT ,Mrs. Rehana Begum, Assistant Professor, Dept of IT.

Objective of the event: This program is designed to train and develop II Year Student of CSE, CSE(AI&ML) and AI&DS to provide the basic concepts

of Python, its syntax, functions and packages to enable them to write scripts for data manipulation and analysis. The course covers various variable types and their features, basic operators and statements, loops, as well as the main packages for data science.

Description :

Coordinators of the Hackathon, Mr. B. Sarath Chandra, Mr. K. Raviteja and Mrs. Rehana Begum welcomed all the dignitaries and delegates. In their welcome speech, they highlighted the importance and objectives of organizing this Hackathon. Conveners of the Hackathon, Dr. B. Srinivasa Rao, HOD of IT started their speech by thanking LBRCE Management and congratulating all the participants who were shortlisted for this hackathon. Then they thanked the Resource Persons for accepting our request irrespective of his busy schedule. They added the importance of Hackathon. They suggested all the students utilize this opportunity, which will help them in identifying/doing projects.



LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING
(An Autonomous Institution Since 2010)
Approved by AICTE, New Delhi and Permanently Affiliated to JNTUK, Kakinada
L.B. Reddy Nagar, Mylavaram, NTR District, Andhra Pradesh - 521230





Department of Information Technology
PRESENTS



HACKIT!

2K24

Themes : [{ "🍷" : "Data Science" }, { "🤖" : "Artificial Intelligence" },
 { "🏠" : "Machine Learning" }, { "📡" : "IoT/Embedded Systems" },
 { "🌾" : "Smart Agriculture" }, { "🌐" : "Web Application" },
 { "♻️" : "Waste Management" }, { "🏡" : "Smart Automation" },
 { "🌳" : "Rural Development" }, { "💡" : "Open Category - Student Innovations" }]

STARTS AT

9 AM

UNTIL 5 PM

WEDNESDAY & THURSDAY

23 & 24

HACKTHON EVALUATION

OCTOBER

REGISTRATION FEE

500/-

PER TEAM
(2 TO 5 MEMBERS ONLY)



SCAN ME TO REGISTER

JOIN US FOR LUNCH..!

FACULTY CO-ORDINATORS
Mr.B.Sarath Chandra
Mr.K.Raviteja
Mrs.Rehana Begum

STUDENT CO-ORDINATORS
M.Rakesh - 9121970425
K.Soma Sekhara Karthikeya - 9110786883
Kondiboyina Sagar
B.Venkate Mohan
Sruvya Koritala
Manasa Batchu
Katari Vaswanth Kumar
J.Harsha Vardhan
Jeedinalla Kranthi Kiran
T.Sailendhra
Ch.Nikhila
A.Harsha Vardhan
G.Gopichand
Jagadeesh
G.Meenakshi

After the evaluation of projects winner and runner had been announced and also a special appreciation had given to the other four teams rather than 1,2,3.

2 – teams got rewarded with runner certifications and memorandums each. 1 – team got rewarded with trophy, winner certifications and also memorandums each.

4 – teams got rewarded with special appreciation certificate each.

34 – teams got rewarded with participation certificate each.



Prize Distribution:

I PRIZE WINNERS CSE



II PRIZE WINNERS IT WINNERS IT



III PRIZE



Workshop Conducted On Problem-Solving Through Programming in C

Month : November

Name Of Coordinators: Dr.BSrinivasaRao, ITDept, S. Jyothi, IT Dept, Mrs.K.LakshmiDevi,ITDept.

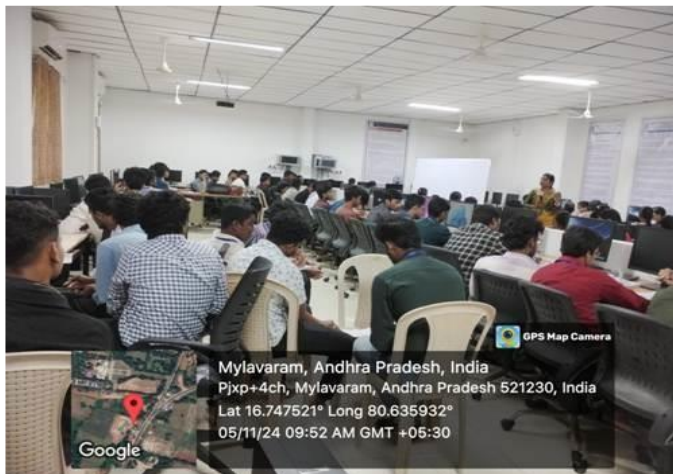
Objective of the event:

The Department of Information Technology, LBRCE, has organized a value added course on “Problem-Solving Through Programming in C” for a duration of 3 days i.e., from 04-11-2024 to 06-11-2024. The first year students are the target audience. The main objective of this event is to introduce the students to the basic concepts of C Programming. The program was inaugurated by Dr. B Srinivasarao, HOD, Dept. of IT. The core objective of this workshop is to train the students to learn basics of C programming Concepts which are attended by first year students.

Description :

The workshop introduced students to the **fundamentals of C programming** and emphasized practical learning. Key topics included **control structures** (conditional statements, loops, break & continue), **arrays and strings** (2D arrays, string operations), and **functions** (declaration, definition, and usage).

Through interactive sessions and hands-on practice, students gained a **solid foundation in coding** and developed essential **problem-solving skills**, making the workshop a valuable learning experience in their academic journey.



One Week Workshop On Future of Blockchain Industry Trends and Practical Implementation

Month : December

Name Of Coordinators : Mr.B.Ravindra Chantti babu,Assistant Professor, Dept of IT , Mrs.R. Pavitra, Assistant Professor, Dept of IT

Objective of the event: The objective of a problem-solving using programming language workshop is to equip participants with the necessary skills and techniques to approach, analyze, and solve computational problems using programming. Specifically, the goals include Develop Logical Thinking, Enhance Algorithmic Skills, Programming Proficiency, Hands-on Experience, Debugging and Optimization, Collaborative Problem Solving, Preparation for Competitions or Interviews .

Description :

Workshop was inaugurated on 09/12/2024 by Dr. B. Srinivasa Rao,(HOD-IT) along with resource persons Mr .V.Pavan, Mr.B.obul and Mr.Bhargav from Braino Vision, Hyderabad. Resource Person Mr.V.Pavan started workshop and discussed the introduction about the Future of Blockchain:Industry trends and pratical implementations, key characterstices and hash functions.



The sessions introduced students to the future of blockchain, industry trends, key characteristics, hash functions, Ethereum, EVM, Solidity programming, and consensus mechanisms. Participants also received hands-on training in tools such as Ganache, Truffle, Node.js, Visual Studio, Docker, and Git, and developed decentralized applications (DApps). The workshop concluded with discussions on Hyperledger and a recap of important concepts. Overall, it provided students with both theoretical

insights and practical exposure, helping them understand the potential of blockchain technology and its real-world applications.

A Four Day Training Program On “Community Centric Innovation by Design Thinking”

Month : December

Name Of Coordinators : : Mr. Ch.Poorna Venkata Srinivasa Rao Sr. Ass Prof, Mr. G. Rajendra Sr. Asst Prof , Mrs .J.GeethaRenuka Asst Prof.

Objective of the event: The objective of the program was to introduce students to the principles of design thinking, foster a creative and problem-solving mindset, and encourage them to apply innovative approaches in addressing real-world challenges through empathy, ideation, and experimentation.

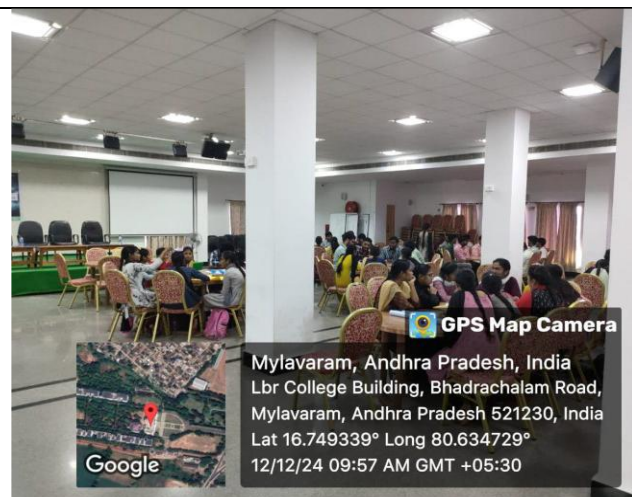
Description :

Workshop was inaugurated by Malleboyina, Software Engineer, Monad Health Executive Committee Member, SwechaAP CH. Naga Malleswari Software Engineer, Monad Health Secretary, SwechaAP .This workshop promotes a cultural shift toward collaboration and inclusivity, breaking down organizational silos and aligning diverse perspectives around shared goals. It instills a framework for continuous learning and adaptation, emphasizing the importance of embracing failure as a critical step in the innovation journey. The theoretical value of such workshops extends to their role in embedding a systemic approach to innovation, enabling individuals and organizations to navigate uncertainty and respond dynamically to evolving challenges.workshop theoretical impact lies in its ability to

cultivate a mindset that embraces ambiguity and encourages experimentation.



The theoretical value of such workshops extends to their role in embedding a systemic approach to innovation, enabling individuals and organizations to navigate uncertainty and respond dynamically to evolving challenges. workshop theoretical impact lies in its ability to cultivate a mindset that embraces ambiguity and encourages experimentation. It equips participants with tools to generate and refine innovative ideas, ultimately leading to the creation of prototypes that serve as tangible representations of potential solutions. These prototypes are not viewed as final products but as starting points for iterative testing and improvement based on user feedback.



SMART INDIA HACKATHON TRIUMPH

STUDENT ACTIVITIES AND ACHIEVEMENTS:

In December 2024, a team of six exceptional students from the department participated in the SMART India Hackathon, under the insightful mentorship of Mr. B. Sarath Chandra. Competing in the hardware category, the team advanced to the grand finale held in Hubli, spanning December 11-15. Their innovative project, titled "Blood Group Detection

Using Fingerprints", showcased a cutting-edge approach to simplifying blood group identification using biometric technology.



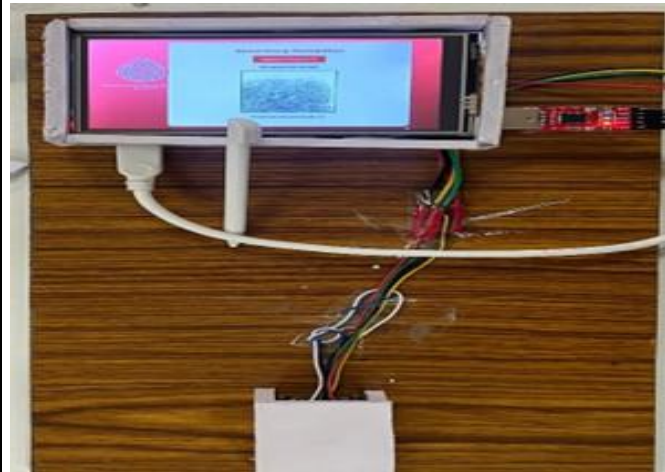
Mentoring session



Demo Session



Testimonial Session



Final Winning product



Winning Moments

The achievements and accomplishments of these students, their mentors and other Faculty members exemplify the collaborative spirit and innovative environment fostered within the department through Research Development Lab showcasing the lab's ability. These milestones and achievements inspire others to pursue excellence and innovation, driving impactful solutions to real- world challenges.