KG REDDY
College of Engineering & Technology
AN **AUTONOMOUS** INSTITUTION

NEWSLETTER

ENGINEERING INDIA'S CHANGEMAKERS
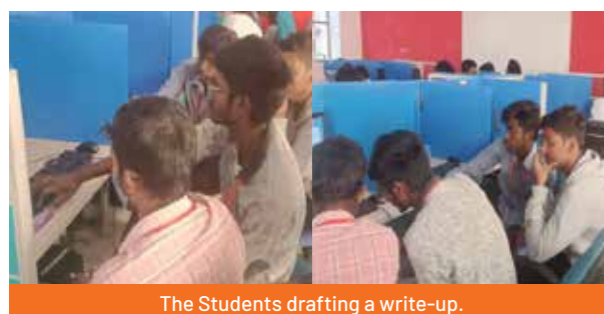
THE DEPARTMENT OF CE

1. A One-Day CAD HACKATHON – (CADATHON) on 3rd February:

The Department of Civil Engineering in association with Green Construction Club and Sky Rider Institutions organised a One Day CAD-HACKATHON (CADATHON) for the II B. Tech. students. Auto CAD plays a prominent role for Civil Engineer graduates to grab opportunities in the industry. Nearly 50 Students from the second year participated in this Hackathon. During this event, the students were asked to submit a write-up along with their drafted plan for AutoCAD. This write-up described their innovative ideas and creativity for Sustainable Plan which will be useful for future generations. In their write-ups they were asked to answer questions like:

- Why did your team choose this Plan?
- How will this Plan benefit society?
- What makes the Plan convenient?

Flier of the Event

The Students working on their Innovative ideas

The Students drafting a write-up.

- What makes the Plan feasible for future generations?
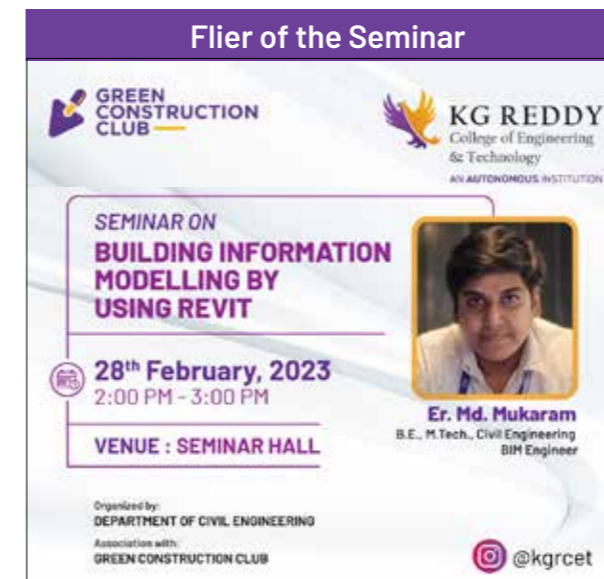- What makes the Plan exciting or unique?

The students were judged based on their Design Methodology, CAD Design, CAD Aesthetics etc. However, animations were optional and were based on student's interest. Through this CADATHON the students got a wonderful opportunity to present their ideas based on their learning from the Certificate Course on AUTOCAD they did.

2. A Seminar on Building Information Modelling using REVIT on 28th February:

The Department of Civil Engineering in association with the Green Construction Club organised the seminar on Building Information Modelling using REVIT for III and IV-year students. The session was presented by Er. MD Mukaram, BIM Engineer, Architude BIM Services, Hyderabad. Mr. Mukaram delivered content from BIM and explained many advantages of using this software which plays a key role in today's construction field. He mentioned that BIM software such as Revit is now used by 73 per cent of respondents. In fact, Revit software is used by 50% of those surveyed (whether they are architects, MEP engineers, or structural engineers) for their daily 3D modelling operations. Revit modelling offers various advantages and it is one of the most used tools for producing and managing building models. Earlier engineers invested most of their time in conceptualizing and drafting. The introduction of Computer-Aided Design was a groundbreaking moment and since then became the standard tool for architects and engineers. Engineering software has evolved and changed tremendously in the last two decades as computing potential has risen.

Flier of the Seminar

Mr. Mohammed Mukarram explaining about BIM.

The Civil Engineering students attending the seminar

THE DEPARTMENT OF ME

1. **Ieee-robotics& automation society hyderabad-sec chapter kgrcet   ieee – ras chapter on 21st february.**
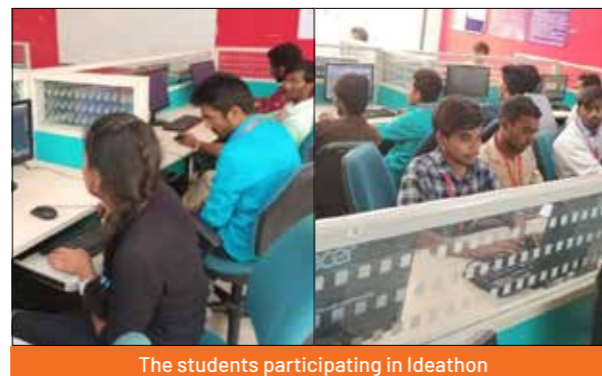
This was conducted in collaboration with amp technology and the department of Mechanical Engineering. It was inaugurated

The participants got to know detailed knowledge of Bootstrap on Arduino. IEEE RAS Chapter provides a platform for students to meet and learn from fellow students, faculty members and professionals in the field. The students can have technical and professional knowledge and can participate in Activities, Workshops, and Conferences. The advantages of the membership are – project funding, Scholarships and Field trips.
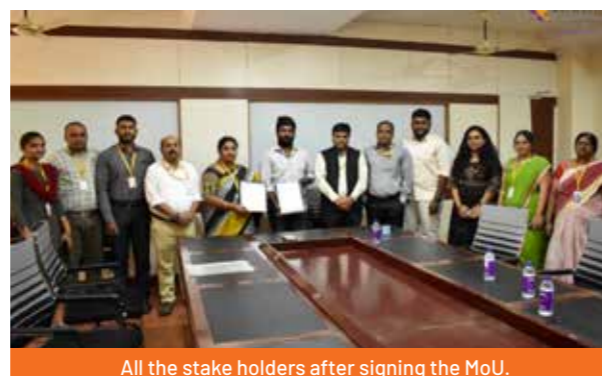
2. **One-Day Ideathon:**

A One-Day Ideathon using AutoCAD was conducted in association with SAE. The students were given challenging designs and assembly tasks which they needed to represent using their imagination and skills of AutoCAD learnt during the certification course. The objective of the event was to develop innovative thoughts in the students and to test their skills learnt during the certification course.

3. **MoU with All India Robotics Association:**

An MoU was signed between KGRCET and the All India Robotics Association (AIRA). Both parties focused on promoting work and knowledge of Robotics and have an objective to pass on the knowledge to young engineers. They also agreed to technology transfer in the form of Expert Lectures, Internships & Projects.

The coding of led is explained.

A group picture at the end of the session.

The students participating in Ideathon

All the stake holders after signing the MoU.

THE DEPARTMENT OF ECE

1. **HACKATHON on 01st Feb:**

The Department of Electronics and Communication Engineering has organized a Hackathon on IOT in collaboration with ABTECHVILLE LLP. The Hackathon was conducted by an expert Mr. Baradwaj. 60 members from the ECE II year took part in this Hackathon. The main focus of the hackathon was to have hands-on practical knowledge with Raspberry Pi and Arduino uno kit. Learning in this platform helps the students in rapid prototype development for their projects.

The Smart Green Energy Building Design is said to be completely automated eradicating any human efforts required for its operation and introducing a new energy ecosystem. A smart building may be defined as "A building that connects its various subsystems together via information technology operating independently while sharing information giving the optimised performance as a result. The Smart Building Concept is built upon building blocks that spread out much beyond the four walls of the buildings.

2. **Mr. AYSOLA SAI CHANDER from the department of ECE has received the BEST TEACHER Award From SIPH for the academic year 2022-23.**

3. **Guest Lecture on :SIGNALS & SYSTEMS on 11th Feb.:**

Dr M.N. Narsaiah, Head of the Department of ECE introduced the resource person Mr. Ravi, retired General Manager, Bharat Sanchar Nigam Ltd, Hyderabad. The resource person started his lecture with an introduction to the sampling theorem and related numerical problems. He also explained the z transform and numerical problems based on it. He answered the questions raised by the students.

Mr. Ravi, the resource person explaining the concepts of sampling theorem.

THE DEPARTMENT OF CSE

Faculty Achievements:

1. **Dr. Siva Shankar S,** Associate professor published a book named "OBJECT ORIENTED SOFTWARE ENGINEERING" from GCS Publishers India in the month of February 2023.

2. **Mr. Surendhr Soundarajan,** Assistant professor got the aws Training and Certificate from aws, on 2nd February 2023.

3. **Dr. Harikrishna Bommala,** Associate Professor has participated in "5 Days FDP on Innovative Teaching Learning Practices for Preparation of NEP-2020, which is organized by the Department of Artificial Intelligence and Data Science in association with the Internal Quality Assurance cell from 6th to 10th February, 20023.

4. **Dr. Siva Shankar S** has registered for the Certificate of Registration for a UK Design grant in the month of February-2023 in SOLAR POWERED AGRICULTURAL ROBOT.

THE DEPARTMENT OF CS - DATA SCIENCE

1. **Poster Presentation on PBA on 06th Feb. 2022:**

   A poster presentation was conducted on PBA, Mrs. Shilpa Bhansal was the Resource person. The students were identifying the problems and gave their own ideas about those problems. They had designed the posters to explain their ideas.

The students explain the problems and their solutions.

2. **Hackathon on Datathon on 07th Feb. 2022:**

   A Hackathon was conducted on Datathon, Mrs. Shilpa Bhansal was the resource person. The students were informed to take one topic and find out the problem and give their solutions. Here the students presented their Posters to explain their ideas.

3. **A One Day Workshop on "Emerging Technologies" on 10th Feb. 2022:**

   A One-Day Workshop was conducted on Emerging Technologies, Mr. Rajan Babu Vesangi was the resource person. The students were informed about the importance of Emerging Technologies. They were asked to enhance their skills in Emerging technologies which play a vital role in the modernization of the industries. New technologies help in transforming enterprises into a digital world. The students showed their curiosity to know and seek knowledge about the new technologies and how they will impact the daily lives of human beings. The students came to know about these emerging technologies and their power to strengthen lives and transform the global economic scenario and make this world a better place for future generations.

The students explaining their ideas through the posters.

4. **Hackathon on 10th&11th February 2023:**

A Hackathon was conducted on the 10th & 11th of February 2023. Dr. Shyam Kumar Katta was the resource person. The students were informed to understand the importance of Social Innovative ideas and their role in finding out the social problems. They expressed their ideas to solve these problems.

Director sir & Principal ma'am engrossed in the Presentations.

THE DEPARTMENT OF CSE - AI & ML

1. **A 2 Days Hackathon on Python on 3rd & 4th Feb:**

The department had organized a Two-Days Python Hackathon on 3rd & 4th Feb. 2023 for the II-year students.

2. **Problem-based Assignment & Project Expo:**

A Problem-based Assignment & Project Expo was conducted for the II-year students.

3. **Students Achievements:**

- III B.Tech CSE(AI&ML) Tanzeem Mallick has completed the course on Python Data structures and Machine Learning.

- II B.Tech CSE(AI&ML) Divya Papineni, Sania Firdous and Mohammed Abdul Maaz have attended a workshop on Data Science & ML at Coding Ninjas.

- III B.Tech CSE (AI&ML) Dadvaiah Pavan has completed a free online course on C for beginners.

- III B.Tech CSE (AI&ML) Maulik Thummar has completed the Basics of Machine Learning which was organized by Great Learning.

- III B.Tech CSE (AI&ML) Erusalagandi Vivek Chary successfully completed an online course on Supervised Machine Learning.

THE DEPARTMENT OF MBA

1. **A 5-Day Certification Course in Business Analytics:**

The Department of MBA organized a 5-Day Certification Course in Business Analytics, Zonal Centre Program in association with Make Intern & E-cell (IIM-Calcutta). The trainer of the course was Mr. Naser Ghazanfer. He is a certified master trainer from IATD and a semi-qualified chartered accountant. He conducted hands-on exercises on Analyzing and Visualizing Data by using various analytical tools such as Excel, Microsoft Power BI, Python and R language.

The students were briefed about the importance of data-driven decision making in businesses and the role of business analytics in achieving this. He emphasized that the organizations have realized the importance of data analytics in developing and implementing business strategies which fuelled more job opportunities. The students learned exploratory data analysis which includes profiling the data, visualizing the results and making observations to determine the next steps in the analysis.

The trainer Mr. Naser Ghazanfer clarified doubts of the students on exploratory data analysis using Python. The students presented their proposals on the final day of the session.

2. **Freshers Day on 25th February:**

The MBA Freshers Party- Novato Fiesta-2K23 was held on 25th February 2023 to welcome the new batch of MBA students to the campus. The event was organized by the senior students with an aim of introducing the new students to the campus culture, building bonds between seniors and juniors, and providing an opportunity for the new students to interact with each other and their seniors.

The party began with a welcome speech by the organizers, who introduced themselves and welcomed the new students to the MBA program. This was followed by a cultural program, which included dance performances, funny games, and a ramp walk. The performances were entertaining and showcased the diverse talents of the students.

The highlight of the event was the fashion show, where the new students walked the ramp dressed

The students attending the session on Microsoft Power BI.

The coordinator Mrs. Sameera Afroze presenting a Memento to the trainer.

in their best outfits. The party also included several games and activities.

The event ended with a prize distribution to the winners of various activities. The seniors shared their experiences and offered advice on how to navigate the MBA program and make the most of their time on campus.
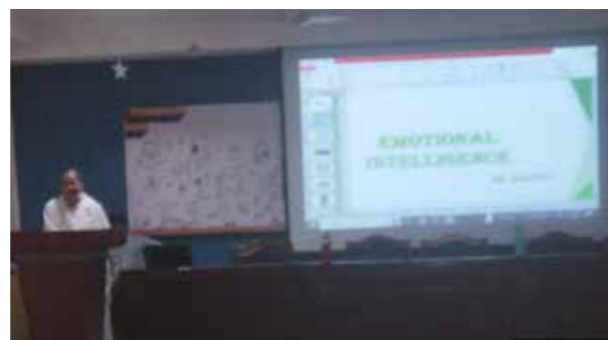
Gallery of the MBA Freshers Day:

THE DEPARTMENT OF STUDENT AFFAIRS (DSA)

A session on Brahama Kumaris' for I. B. Tech. students on 2nd February:

The departments of Student Affairs had organized a Brahma Kumari's session for the first-year students and the resource person was Ms. Anjalli Didi who spoke with inspiration on how to empower women and girls the world over. She explained the essential links between Sustainable Development and poverty reduction and the critical role played by women and girls and their empowerment. She said that there is a reason why the Earth is called Mother. She provides for us. We must take care of her as we take care of our mother. The aim of the talk was to look at the fundamental shift in thinking required to move from a relationship of domination towards Nature and to cooperate with it. To reshape our global economy into one which should be sustainable. This mindset is critical for all of us to realize. At the end of the session, she was felicitated by the faculty members Dr. Kalyani and Mr. Mahantesh at 4 0' clock.

Brahma Kuari during the session.

TRAINING & PLACEMENT CELL (T & P)

1. Company-Specific Training on 20th February:

The Training & Placements Cell organized company-specific training from 20th to 22nd February 2023. During these 3 days, around 150 IV-year students attended the training session.

2. A Placement Week from 22nd ton 28th February:

The Training and Placements Cell organized a Placements Week from 22nd to 28th February 2023. The placement drive was conducted for six companies. The Bot Defense Tech Solutions conducted on 23rd Feb. and the package they offered was 3.6 LPA as a Software Intern,

Turning Minds Drive on 24th:

The Turing Minds drive was conducted on 24th Feb; 12 students are selected. Its abroad placement package was up to USD 90000 (INR 72 LPA) along with MS program opportunities. Karthik Dasari, shivani Gupta, Gurram Sowmya, Sai Kaushik, Nishad Unnisa, Hrushinath Gunda, Mahesh Babu, Shreya Reddy, Swapnil Choudhary, Verinica Kondamudi, Sarapu Vaishnavi & Sai Kiran are the students who got selected.

ADQURA placement Drive on. 25th Feb:

On 25th Feb. ADQURA conducted a placement drive, 2 students were selected, the package offered was of 5 LPA and the role is for Software Trainee.

PRATIAN TECHNOLOGY Drives on 27th February:

48 students were shortlisted and the package offered was for 5 LPA as a Software Trainee.

Glimpses of the Program

21 Students were short-listed.

CENTRE FOR ENGINEERING EDUCATION & DEVELOPMENT (CEED)

1. **A Workshop on Curriculum Design on 3rd February:**

Center of Engineering Education and Development (CEED) has conducted a One Day workshop on "Curriculum Design" at Digital Library.

Dr. RohitKandakatla during the workshop on Curriculum Design.

The Outcome of the Workshop was to enable the participants to Design the Curriculum for the UG Courses.

Dr. Rohit Kandakatla, the Director, was the resource person.
The session started with a brainstorming activity among the different department faculty members to give weightage to the subjects according to their credits and maintain uniformity in all the semesters dividing the total of 160 credits. In this session, the speaker explained how to balance the curriculum with the credit system. There was a discussion on the Mandatory and Elective Courses also.
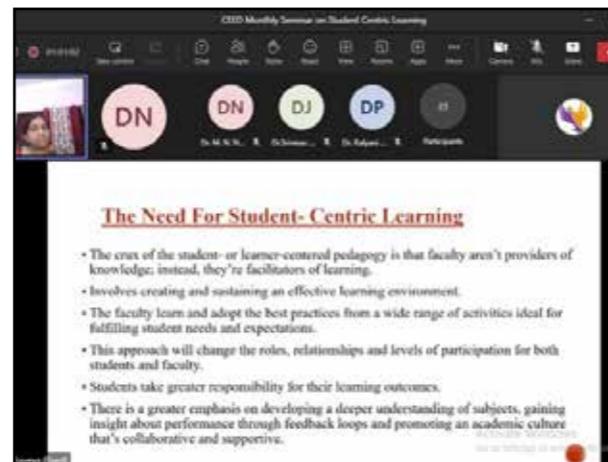

The Director, HoDs & Subject Experts during the workshop.

2. **A Seminar on Student-Centric Learning on 9th February:**

The Centre of Engineering Education and Development (CEED) has organized a Seminar on "Student Centric Learning" on 9th February -2023 online. The outcomes of the workshop were

- Listing the importance of Student Centric Learning.
- Characteristics of Student Centric Learning.
- Listing the principle of Design Thinking.

Ms. P. Soumya, Teaching cum Research Assistant, SELECT, VIT, Vellore was the resource person. She emphasized the need for Student Centric Learning, the Characteristics of Student Centric Learning and how to Integrate Student Centric Designs. She had more focus on Design Thinking Skills required in education, & the four principles

of Design Thinking. The key take away from the seminar were as follows

1. The Institutions have the responsibility to create an environment where students are encouraged to take risks for learning and growth.

2. It's time to let go of fear-based motivation tactics where students learn solely, because of the fear of getting a bad grade.

3. There should be enthusiastic learning and voluntary involvement.

It was conducted online.

The speaker emphasized the need for Design Thinking in education.

3. **Achievements in the Centre:**

Ms. T. Sandhya and Dr. Madhulita Sundaray were invited as reviewers at the faculty presentations at the Colloquium on 25th February at Vishnu Educational Development and Innovation Centre (VEDIC), Sri Vishnu Educational Society, Shri Vishnu Engineering College for Women, Bhimavaram, Hyderabad.

4. **Teaching & Learning Conclave at KGRCET on 28th February:**

The Center of Engineering Education & Development (CEED) has conducted a Teaching & Learning Conclave on 28th Feb 2023, from 2 to 4 pm. The following faculty members have presented from different departments.

Humanities & Sciences - Mrs. Zareena Zameer.

Civil Engineering - Ms. Hima Bindhu.

Mechanical Engineering – Mrs. K. Kalpana.

Electronics and Communication Engineering – Mr. Vijay Bhaskar Reddy.

Computer Science and Engineering - Mr. L. Raghu.

Computer Science Engineering (AI & ML) – Dr. K. Maithili.

Group picture at Vishnu Educational Development and Innovation Centre (VEDIC).

Presentations during the Conclave at Vishnu Educational Development and Innovation Centre (VEDIC).

The participants & Dr. Rohit interacting with faculty members during the presentation.

CENTRE FOR INNOVATION & SOCIAL TRANSFORMATION (CIST)

1. **Impulse-2023**

   All THE CIST Faculty along with 5 students attended the Impulse-2023 Event organized by BVIC Hyderabad. Our Institute is also an Eco-partner of BVIC. We had put up two stalls in which we projected explored all the activities being organized by the centre in our institution and exhibited our innovative projects.

   Dr. Samyukta explained about CIST & a group pic of the event.

2. **Village Visits on 1st & 2nd February on 1st & 2nd February:**

   The Centre for Innovation and Social Transformation (CIST) organised field visits on the 1st & 2nd of February 2023 as a part of the Social Innovation-I Course. The students visited Nakkalapally, Tholkatta, Surangal, Sajjanpally and Chilkur villages to identify the existing issues and their disadvantages to doing the gap analysis for their respective problem statements.

   The students interacting with the villagers.

3. **Pitching Event for Ideas Scouted on 10th & 11th February:**

   The Centre for Innovation and Social Transformation (CIST) organised the Pitching event for Ideas Scouted for all the II year students on 10th and 11th February-2023. As a part of the Social Innovation-I course, the students prepared posters and presented them to the external judges and all the Deans, Heads and faculty who visited the poster presentations. Over 86 students presented their ideas through their posters for their respective problem statements. The centre had invited two judges from outside the institution to judge and give constructive feedback. The judge for Day-1 was Dr. Shyam Kumar Katta, Director, Programs-Heifer International, USA and Advisor-Smart farming Technologies-Netherlands. For Day-2 the judge was Mr. Peteti Sudheer Kumar, International Accreditation Organization-Global Chapter member, Resource person MGNCRE, Ministry of Education, Government of India.

   The fliers for the Poster Presentations.

   Dr. Rohit K. (Director) & Dr. Vijayalata Reddy (Principal) at the event.

4. **Workshop on Concept to Product-IIT Hyderabad on 23rd February:**

   Three faculty members from the Centre for Innovation and Social Transformation attended the workshop on Concept to Product.

The Event Gallery

CENTRE FOR RESEARCH & INNOVATION DEVELOPMENT (CRID)

SCI PUBLICATIONS:

- **Dr. E. Meher Abhinav,** "Realization of Enhanced Refrigeration Capacity with Non-Hysteretic Behaviour in Ni40Gd5Co5Mn37In12Si1 Alloy Near Room Temperature at 2T, ACS Applied Energy Materials, 10.1021/acsaem.2c03680.

- **Dr. Manisha,** "Non-Volatile Binary Content Addressable Memory Cell With Read / Write Scheme Using Spin-Polarized Current Mode Magnetic Tunnel Junction", Journal of Engineering Science and Technology https://jestec.taylors.edu.my/V17Issue6.htm.

- **Dr. L.V Reddy,** "A Study On 'LPWAN' Technologies For A Drone Assisted Smart Energy Meter System In 5g-smart City Iot-cloud Environment", Journal of Applied Science and Engineering (Taiwan), 10.6180/jase.202308_26(8).0015

SCOPUS PUBLICATIONS:

1. **P. Naresh Kumar,** " Coronary Artery Disease Prediction Based On Optimal Feature Selection Using Improved Artificial Neural Network With Meta-Heuristic Algorithm", Journal of Theoretical and Applied Information Technology, http://www.jatit.org/volumes/Vol100No24/22Vol100No24.pdf.

SCOPUS CONFERENCE:

1. **Dr. Vijayalatha,** "Air Contamination Prediction and Comparison Using Machine Learning Algorithms", International Conference on Cognitive and Intelligent Computing. Cognitive Science and Technology. Springer, Singapore. 10.1007/978-981-19-2358-6_60

2. **Dr. Vijayalatha,** "Drowsiness Detection Using IoT and Facial Expression", International Conference on Cognitive and Intelligent Computing. Cognitive Science and Technology. Springer, Singapore. 10.1007/978-981-19-2358-6_61

3. **Dr. D. Gopal,** "Parametric study of MHD, heat absorption/generation and diffusion of mass on one dimensional unsteady, chemically reacting flow employing Finite Element Method", Material Today: Proceedings, 2023, 10.1016/j.matpr.2022.12.001.

ACHIEVEMENTS / RECOGNITIONS:

1. **Mr Raghu Kumar** completed PhD from OPJS University, Rajasthan

2. **Mrs Kalpana** has got admission in PhD in KL University Vijayawada

CONSULTANCY GRANT:

1. **Mrs. G. Lakshmi Bhavani** has been sanctioned a consultancy grant for a Product development project titled "IoT Based Smart Electronic Product Development worth Rs. 1,00,000/- (one lakh) for a duration of 1 year from ABTECHVILLE LLP, Hyderabad

FUND UNDER SCHEME:

1. **Dr. Surya Narayana Reddy** received a grant of Rs. 2,00,000/- for organizing an Entrepreneurship training program from DST, New Delhi.

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