SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)
SreeSainath Nagar, A. Rangampet, Near Tirupati - 517 102 (A. P)
Department of Computer Science and Systems Engineering
One Week Faculty Development Programme
On
Multidisciplinary Research: Barriers and Opportunities with Computing
21st -25th January, 2019

The Department of Computer Science and Systems Engineering organized a one Week Faculty Development Programme on **"Multidisciplinary Research: Barriers and Opportunities with Computing"** during 21st-25th January, 2019, in association with IEEE Hyderabad Section.

The Faculty Development Programme mainly focused on Multidisciplinary Research Problems, and opportunities to enhance research capabilities of young members of faculty especially in multidisciplinary research. Faculty members and Research Scholars from different disciplines attended programme.

21-01-2019: The Programme began with an Inaugural Function followed by two technical sessions. In the first technical session,**Dr. B. Narendra Kumar Rao,** delivered a talk on the research issues in the domain of cyber physical systems.

In the second and third technical sessions,**Mr. SwamyKuchi**, discussed the essence of cyber security, industry opportunities in cyber security and data science.

Dignitaries Lighting the Lamp

The Chief Guest **Dr. T. Lazar Mathew** addressing the participants

Dr. B. Narendra Kumar Rao delivering session on "Research Issues in Domain of Cyber Physical Systems"

Mr. SwamyKuchi delivering session on "Industry Opportunities in Cyber Security and Data Science"

22-01-2019: TheSecond day of the FDP began withthe technical session by **Dr. K. G. Suma.** She discussed Bio-medical image processing and Research issues in the field of Bio-medical science. The next technical session was by **Dr. G. Sasikumar.** In his presentation, he discussed different research centers available for Bioinformatics, virtual centers and different online sources available. The afternoon session began with the presentation by **Dr. V. R. Anitha**on RF MEMS and its Applications. The second day ended with the presentation by **Dr. N. Padmaja.** Shepresented types of innovations, Scientific Approaches to Innovation and Invention.

23-01-2019: The third day began with a Presentation by **Dr. V. AnanthaNatarajan.** He discussed different data visualization techniques available for large data sets and the process of time series data analysis with Python. Next technical session was by **Dr. O. Eswara Reddy,** on the role of Artificial intelligence in Civil Engineering.The post lunch session began with a presentation by **Dr. P. Geetha,** on strengthening multidisciplinary research. Last session of the day was by **Dr. D. V. S. Bhaganulu,** on Research Ethics and Research Findings. He explained research ethics with different case studies.

Dr. K. G. Suma delivering session on "Biomedical Image Processing: Barriers and Opportunities"
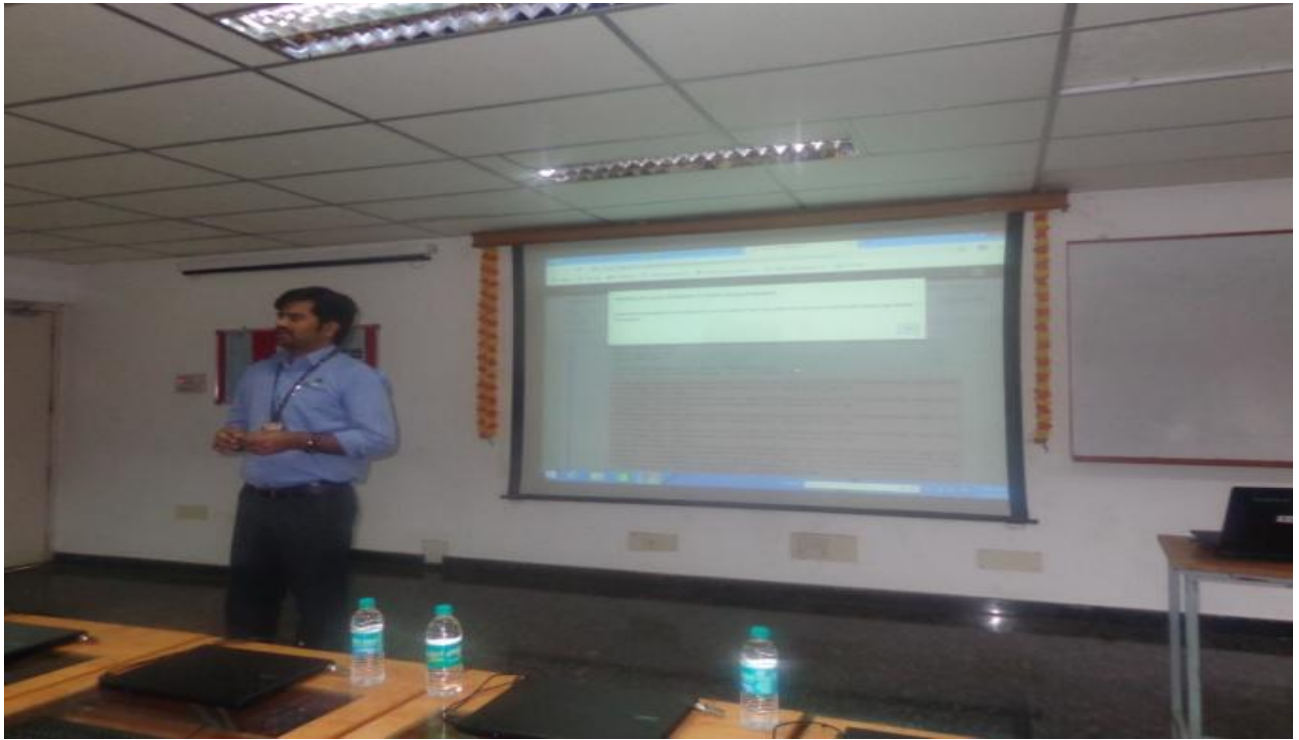

Dr. G. Sasikumar delivering session on "Bioinformatics: A Research Perspective"

Dr. V. R. Anitha delivering session on "RF MEMS and Its Applications"

Dr. N. Padmaja delivering session on "Innovations: Key to Success"

Dr. V. AnanthaNatarajan delivering session on "Data Visualization Techniques and Time Series Data Analytics with Python"

Dr. O. Eswara Reddy delivering session on "Artificial Intelligence in Civil Engineering"

Dr. P. Geetha delivering session on "Strengthening Multidisciplinary Research"

Dr. D. V. S. Bhaganulu delivering session on "Research Ethics and Research Findings"

24-01-2019: The first Technical Session of day 4 began with a presentation by **Dr. O. Obulesu,** on applying machine learning techniques for data analytics using R Studio. The next session was by **Dr. A. Srinivasulu.** He discussed research

methodology and how to draw mind charts for any research problem. In his session the participants drew mind charts for different research problems. The post lunch session began with a talk by **Dr. S. Farook,** on data preparation and analysis for research.4th day ended with the presentation by **Dr. T. Hariprasad,** on Role of Computer Technology in Mechanical Engineering.
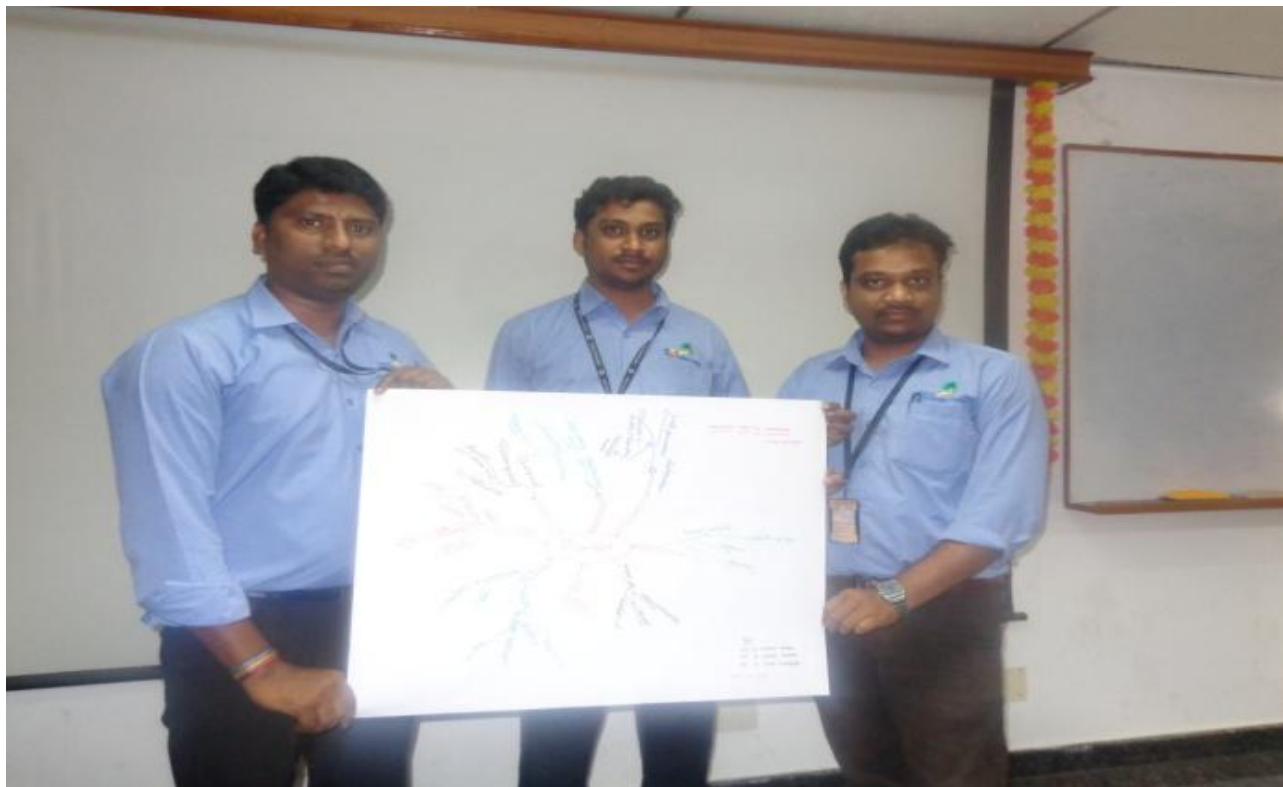
25-01-2019: Last day of the FDP began with the session by **Dr. K. K. Baseer.** He discussed how a systematic literature survey can be done for effective research and How to identify the problem statement for research. He also discussed research perspectives in Intelligent IoT along with demonstration of Smart Home using IoT. Before lunch, another technical session was by **Dr. V. S. V. Prabakar,** on The Need of Multidisciplinary Approaches and Engineering Tools for the Development and Implementation of Smart City Paradigm. Next session was by **Dr. R. SatyaMeher** on Research Grants. He discussed how to apply for Research Funding and different funding agencies available in different engineering domains. The last technical session was by **Mr. Ashraf Ali Shaik**on Computational Thinking.

Dr. O. Obulesu delivering session on "Machine Learning Techniques using R Studio"

Dr. A. Srinivasulu delivering session on "Research Methodology in Computer Science"

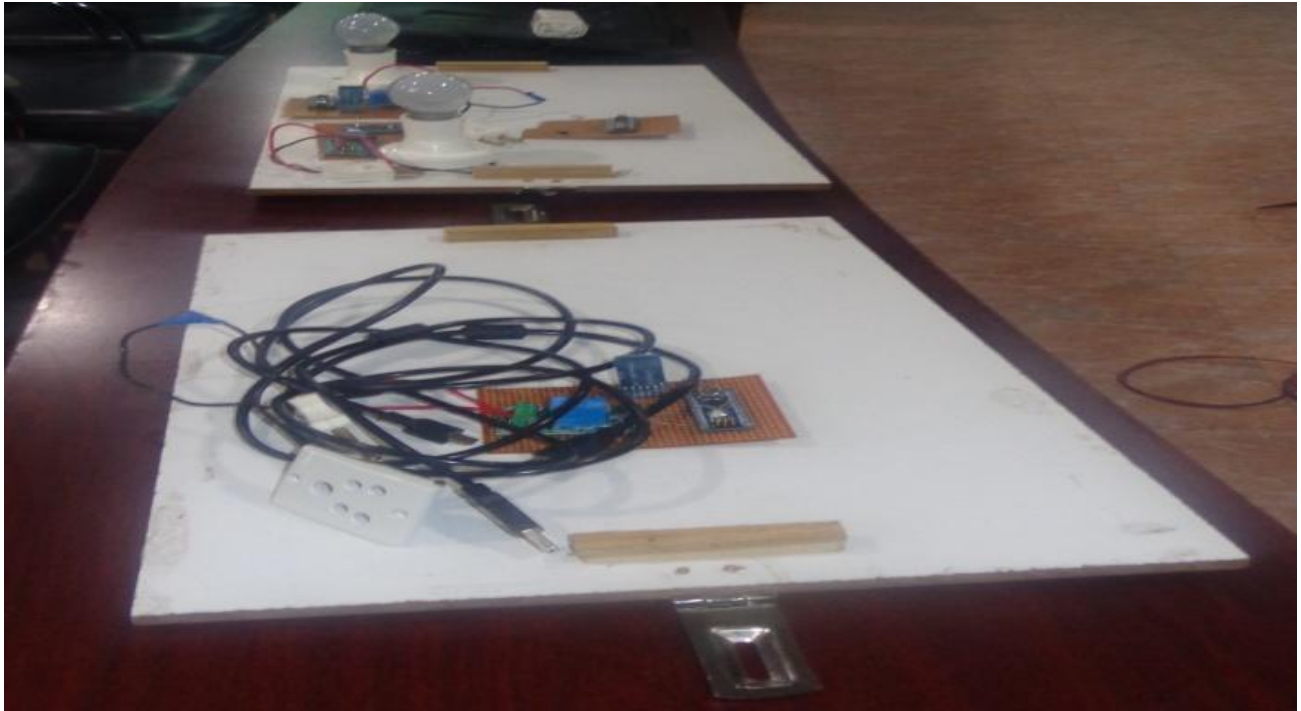Participants displaying the Mind Chart drawn on Micro Grid

Dr. S. Farook delivering session on "Data Preparation and Analysis for Research"

Dr. T. Hariprasa delivering session on "Role of Computer Technology in Mechanical Engineering"

Dr. K. K. Baseer delivering session on "Systematic Literature Review and Research Perspective in Intelligent IoT"
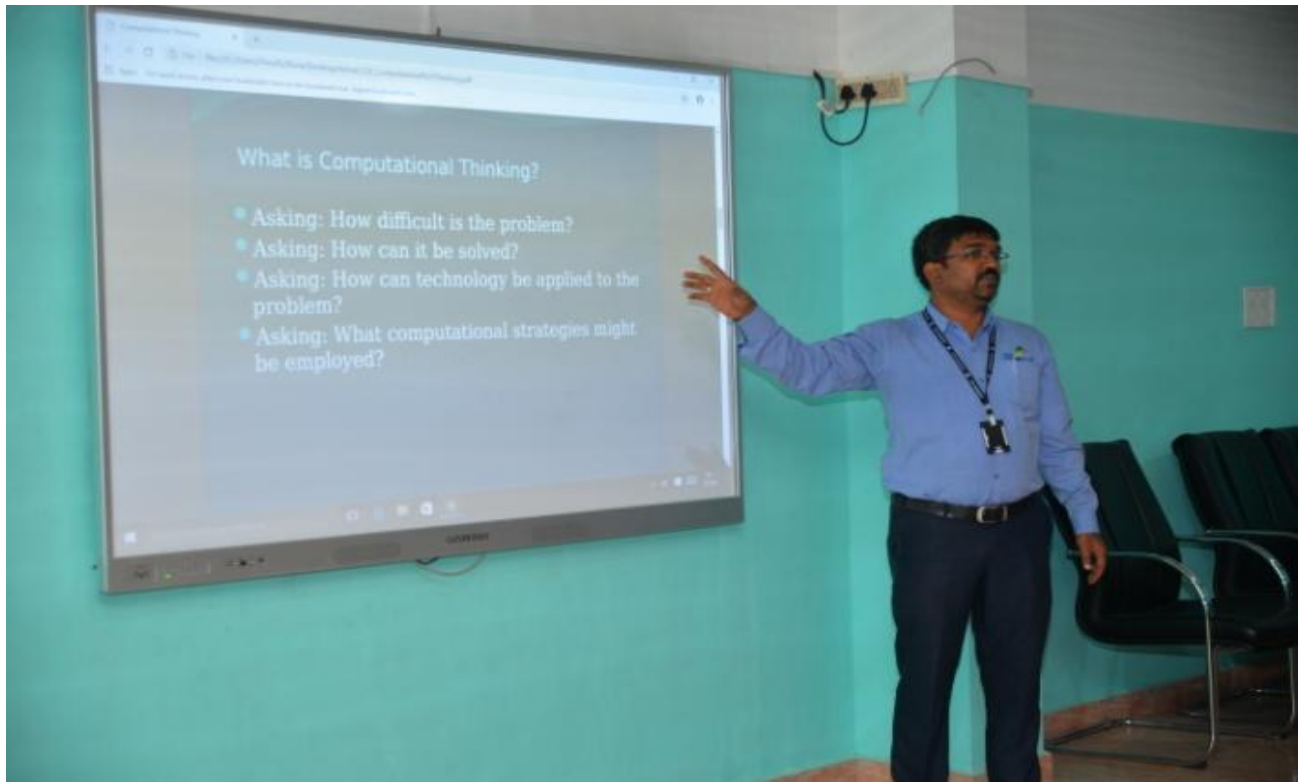

Displaying Role of IoT in Smart Home

Dr. V. S. V. Prabakar delivering session on" The Need of Multidisciplinary Approaches and Engineering Tools for the Development and Implementation of Smart City Paradigm"

Dr. R. SatyaMeher delivering session on "Research Grants"

Mr. Ashraf Ali Shaik delivering session on "Computational Thinking"

Dr. P. C. Krishnamachary, Principal, SVEC, Presenting Memento to the Resource Person

Dr. V. V. Rama Prasad, Dean Academics, Presenting Memento to the Resource Person

Participants

The Faculty Development Programme successfully completed on 25th January, 2019. Participants expressed their enthusiasm and interest towards attending the FDPand appreciated the organizers for conducting the programme.