

Event Report

Curriculum Development Workshop under AICTE IDEA LAB, held on 17th January 2023

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| Name of the Activity: | Curriculum Development Workshop under AICTE IDEA LAB | | |
| Theme of the Activity: | To initiate the AICTE IDEA Lab activity | | |
| Activity Date(s): | 17 th January 2023 | No. of Participants: | 60 |
| Brief Description of the Activity: | | | |
| <p>As part of G-20 Activity, the Guru Gobind Singh Indraprastha University conducted a one day Curriculum Development Workshop under AICTE IDEA LAB on 17th January 2023 under the mentorship of Prof. Amit Prakash Singh, Chief Mentor. AICTE has selected Guru Gobind Singh Indraprastha University to establish AICTE funded IDEA Lab. A team of following faculties are planning and executing the proposal to establish AICTE IDEA Lab at GGSIPU:</p> <ol style="list-style-type: none">1. Prof. Amit Prakash Singh - Chief Mentor2. Dr. Ruchi Sehrawat - Coordinator3. Dr. Manoj Kumar Satyarthi - Coordinator4. Dr. Kamaldeep Kaur, Associate Professor, USICT <p>The inauguration of the event was attended by Dr. Sudeep Kumar, Director (Research and Innovation) and Prof. C. S. Rai, Director (Academic Affairs). Prof. Dhananjay Gadre, Dept. of Electronics & Communication Engineering, Netaji Subhash University of Technology delivered presented the vision of the IDEA Labs are being established across the country for encouraging students for application of science, technology engineering and mathematics (STEM) fundamentals towards enhanced hands-on experience, and learning by doing. Prof. Amit Prakash Singh presented the vision of the workshop to all the participants. Two faculties from each engineering college affiliated with Guru Gobind Singh Indraprastha University have attended the workshop.</p> <p>The workshop was conducted by Prof. Dhananjay Gadre a man of great vision and a pioneer in the field of electronics design. He has a versatile experience of over 25 years and is working in the Department of Electronics and Communication Engineering at Netaji Subhash University of Technology, Delhi. He lead two open access laboratories at NSUT, namely Centre for Electronics Design and Technology (CEDT) and TI Centre for Embedded Product Design, has written several professional articles and five books, two translated into Chinese and Russian. He has dedicated his life into hands on tinkering projects. He has mentored several innovative projects in the area of embedded systems, wearable electronics and Internet of things. He is a member of AICTE National Steering Committee for Idea Lab Program.</p> <p>Prof. Gadre explained the concept behind the formulation of IDEA (Idea Development Evaluation and Application). Prof. Gadre demonstrated several projects designed by him during the last 20 years. The workshop was attended by several faculty members of University School of Studies and many affiliated colleges of Guru Gobind Singh Indraprastha University. The best part was that the projects were based on applications of simple laws of</p> | | | |

Physics like Faradays laws, electromagnetic induction, capacitor properties, Air Track experiment, built in his own lab which students must apply. He demonstrated several devices like talking TOM, electronic lamp lighting, electronic birthday candles etc to name a few. Prof. Gadre has been mentoring several students and faculty members on electronics kits for hands on experience. His book on AVR microcontrollers is very insightful for designing projects.

The workshop was highly interactive and great learning experience. In fact the take away lesson was the joy and satisfaction one feels after practical designing of electronic circuits and learning by doing things is ineffable . India’s Semiconductor Mission – the nodal agency for the Programme for development of semiconductors and display manufacturing ecosystem in India will be a success only when we all join hands in designing and fabrication.

Brief Description of Participants(like industry experts, students, faculty, etc):

Faculty Members, students and staff from University School of studies and Affiliated Colleges

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| Instagram: | https://www.instagram.com/p/CoHS_GaSw-k/?igshid=YmMyMTA2M2Y= |

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