ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)

Affiliated to Visvesvaraya Technological University, Belagavi &

Approved by AICTE, New Delhi. Recognized by Government of Karnataka.

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MEMS LAB

PRODUCT DEVELOPMENT WORKSHOP REPORT

JUNE-2023

MEMS LAB REPORT

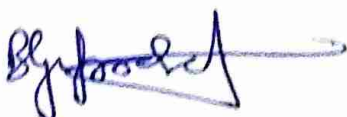# Report on Product development life cycle

Introduction:

A seven-day workshop on product development life cycle using KiCAD software was conducted by the Department of Electronics and Communication Engineering at our college from June 8th, 2023 to June 15th, 2023. The workshop was aimed at providing hands-on experience to the participants on creating electronic product designs using KiCAD. The workshop covered various stages of the product development life cycle, including ideation, design, prototyping, testing, and manufacturing.

Day 1: Introduction to KiCAD Software

On the first day of the workshop, the participants were introduced to the KiCAD software. They were taught about the various features and tools available in the software that are used in the product development process. The trainers also demonstrated the proper way of installing and configuring the software on their laptops.

Day 2: Schematic Design

The second day of the workshop was dedicated to schematic design. The participants were taught about the importance of schematic design in the product development process. They were introduced to the various elements and symbols used in the schematic design and were given hands-on experience in creating schematic designs using KiCAD.

Siddesh

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Day 3: PCB Design

On the third day, the participants were introduced to PCB design using KiCAD. They were taught about the various types of PCBs, the components used in PCB design, and the design rules required for creating high-quality PCBs. The participants were given hands-on experience in creating PCB layouts using KiCAD.

Day 4: Component Placement and Routing

On day four of the workshop, the participants were taught about the importance of component placement and routing in the product development process. They were introduced to the various techniques used for component placement and routing and were given hands-on experience in arranging and routing components on PCB layouts.

Day 5: Gerber File Generation

The fifth day of the workshop was dedicated to the generation of Gerber files. The participants were taught about the importance of Gerber files in the manufacturing process and were given hands-on experience in the generation of Gerber files using KiCAD.

Day 6: Design Review and Prototyping

On day six, the participants were taught about the design review and prototyping stages in the product development life cycle. They were introduced to the various testing techniques used in the design review stage and were given hands-on experience in prototyping electronic designs using KiCAD.
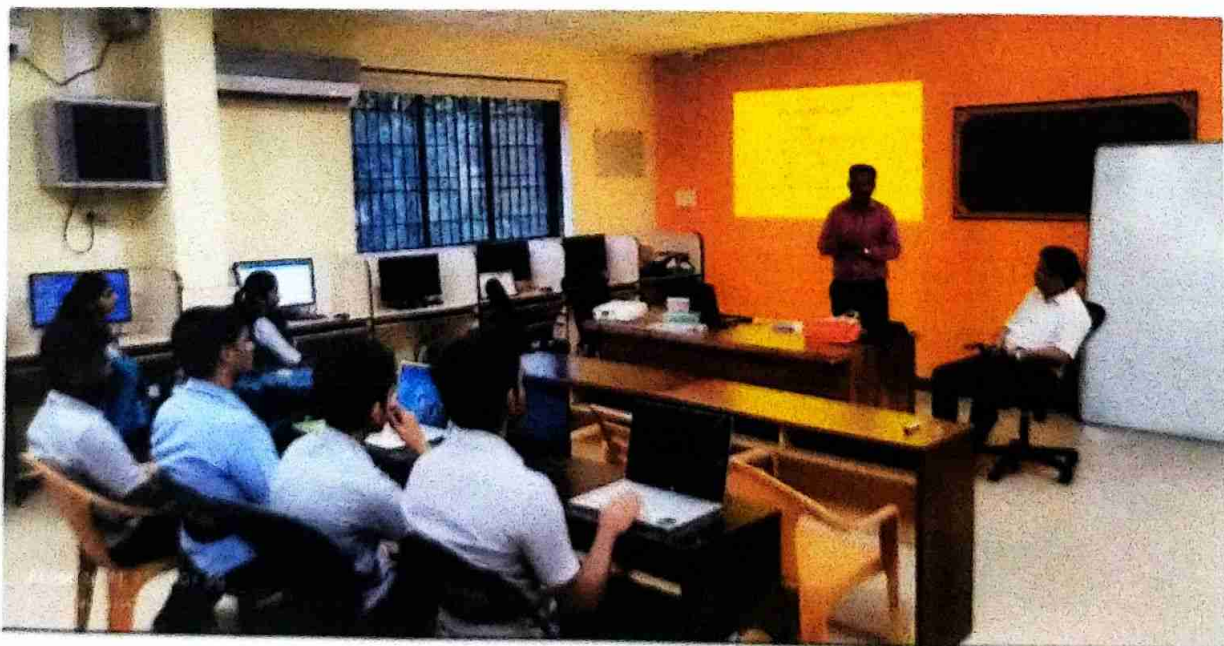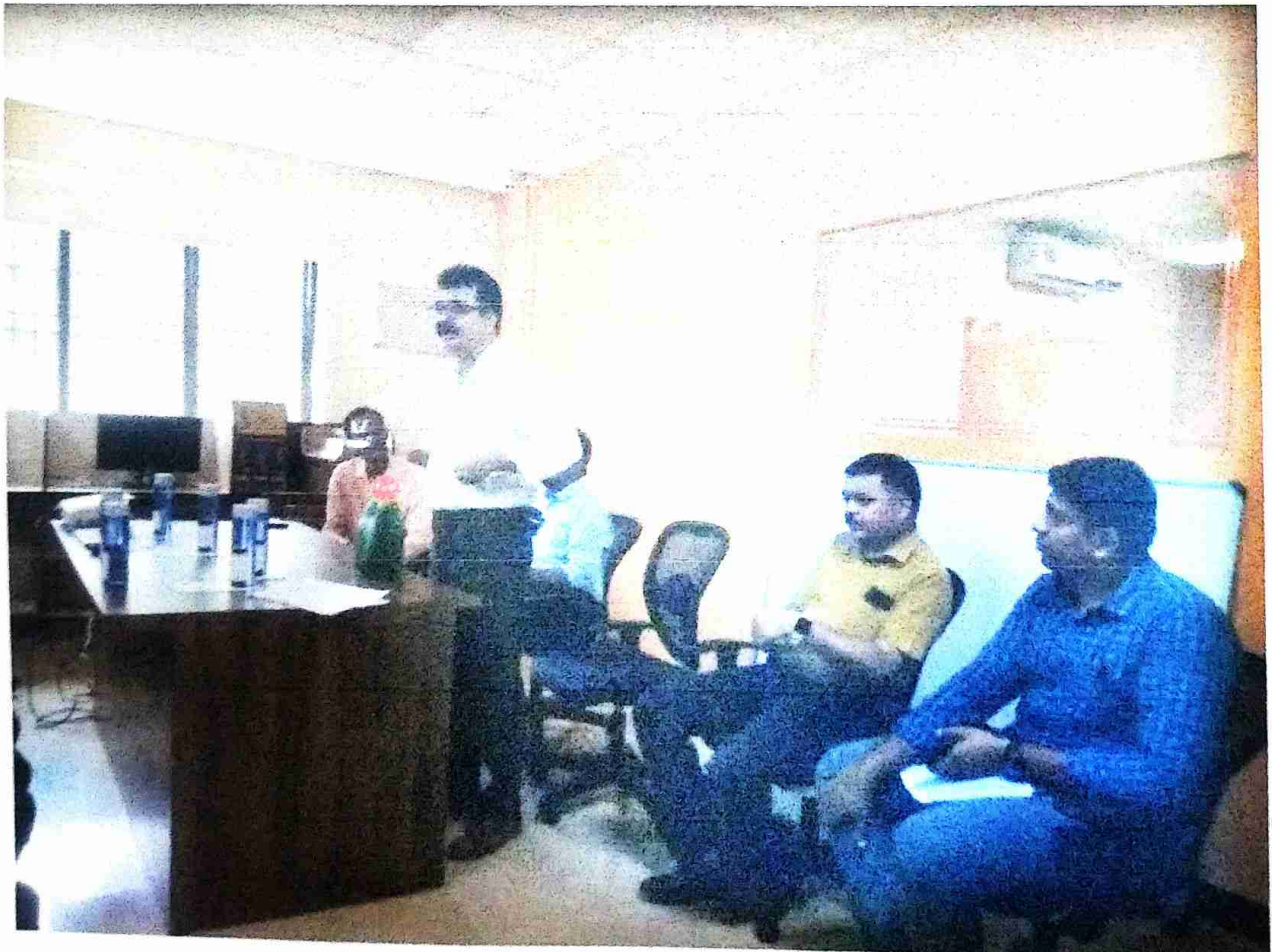
Day 7: Manufacturing and Testing

On the final day of the workshop, the participants were taught about the manufacturing and testing stages of the product development life cycle. They were introduced to the various manufacturing techniques used in the production of electronic products and were given hands-on experience in the testing of electronic designs using KiCAD.
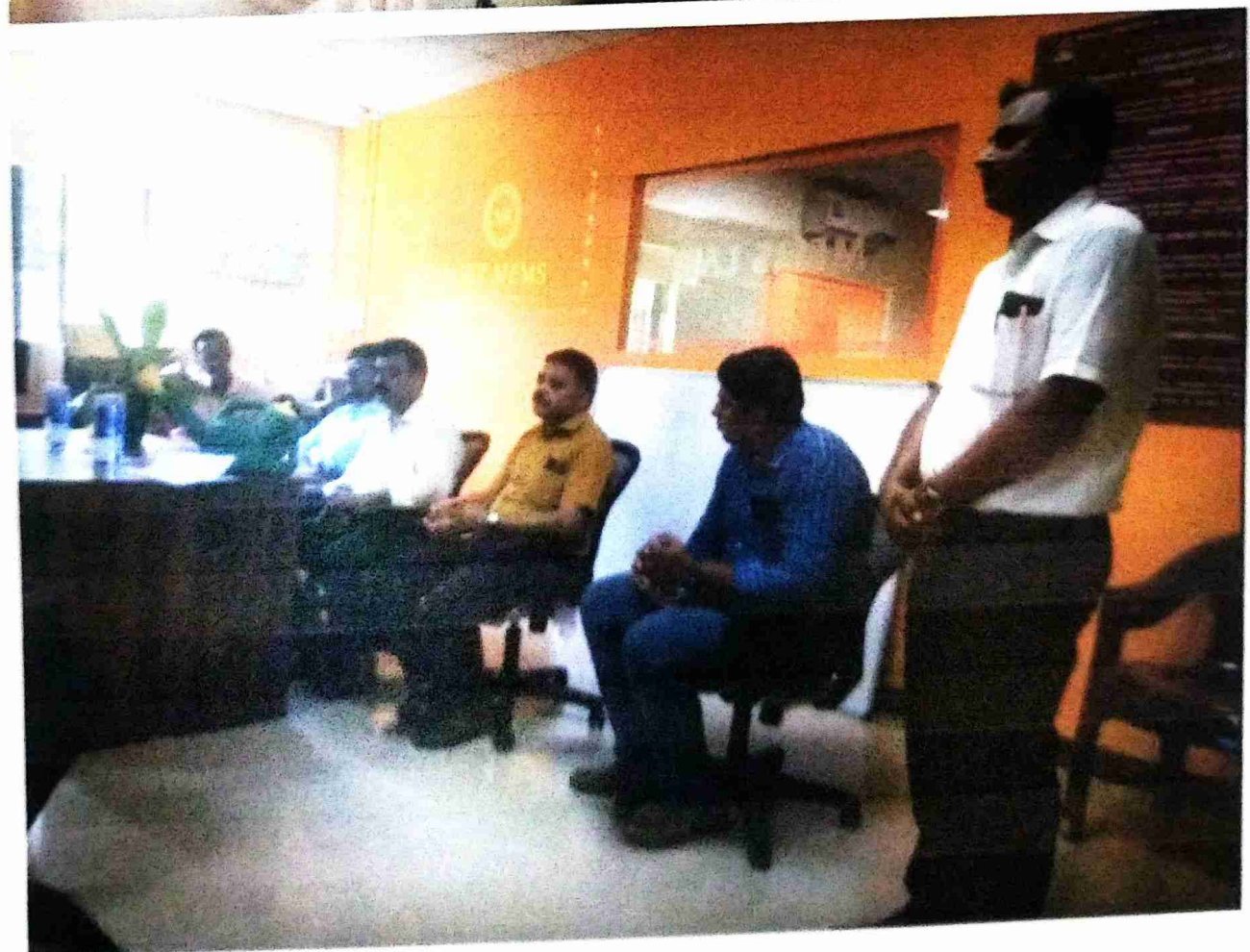
Conclusion:

The seven-day workshop on product development life cycle using KiCAD software was a huge success. The participants were able to gain hands-on experience in various stages of the product development process and were able to create their own electronic designs using the software. The workshop was a great learning experience for all the participants and helped them in enhancing their skills in electronic product development.
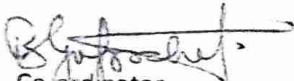
Glimpses of the Event:
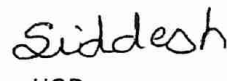
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CICULAR   26-05-2023

Through this we would like inform all the students that, AIET MEMS LAB of ECE

department is organizing 7 days' workshop on "Product development life cycle" on June 8th, 2023

(Thursday). The interested students can register through the google registration link. The link will be

shared in the group.

Co-ordinator   Siddesh   Principal
                                HOD   PRINCIPAL
                                                    Alva's Institute of Engg. & Technolog
                                                    Mijar, MOODBIDRI - 574 225, D.K

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