

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

Affiliated to Visvesvaraya Technological University, Belagavi &

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

Accredited by NAAC with A+ & NBA accreditation for ECE & CSE

MEMS LAB

PRODUCT DEVELOPMENT WORKSHOP REPORT

JUNE-2023

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

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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.

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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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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Approval Letter

Date: 01.06.2023

To

Principal,

Alva's Institute of Engineering and Technology

Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka.

Respected Sir,

Subject: Conducting Certificate Programme on "Product Development Workshop".

Regarding the aforementioned subject, I would like to kindly draw your attention to the fact that the department intends to hold a four-day certificate program on "Product Development Workshop" from June 08 to June 14, 2023. Mr. Santhosh, Director, EM –Tantra Pvt Ltd, serves as the program's resource person. Students in their fourth and sixth semesters can participate in this training program.

Consider our request and take the appropriate action to facilitate further action.

Thanking You Sir

Coordinator

Dr. Guruprasad B

Dr.Siddesh

Principal

Timospus

Dr.Peter Fernandes

PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar. MOODBIDRI - 574 225, D.K



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Invitation Letter

Date: 05.06.2023

To

Mr. Santhosh.

Director.

EM-Tantra Pvt Ltd, Mangaluru.

Dear Sir.

We are delighted to ask you to serve as a resource person for a certification course on "Product Development Workshop" that is scheduled to take place at our leading institution from June 08 to June 14, 2023. Students from the Department of Electronics and Communication Engineering's fourth and sixth semesters will participate in this training program.

Kindly accept our invitation letter and do the needful.

Thanking You

Coordinator

Dr. Guruprasad B

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Dr. Siddesh

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Circular

Date: 06.06.2023

It is here by informed to all the students of 4th and 6th Semester that our department is organizing 7 days certificate programme on "Product Development Workshop" from June 08 to June 14, 2023. In this regard all the students are informed to attend the same and go through the basics of electronic circuits. Certificate will be provided upon completion of course with minimum 85% attendance at the end of the course.

Coordinator

Dr. Guruprasad B

Siddesh

HoD

Dr. Siddesh

H. O. D.

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Feedback Form

Resource person: Mr. Santhosh

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If any remarks or suggestions you would like to make

Very Intrested. He Should be Give Some Assignments Reg this programme.



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Appreciation Letter

14th June, 2023

Mr. Santhosh

Director,

EM-Tantra Pvt Ltd, Mangaluru.

Sub: Letter of Appreciation

Dear Sir.

We would like to express our heartfelt appreciation for organizing the certificate course on "Product Development Workshop" from June 08 to June 14, 2023. On behalf of Management, the Principal, and the Department of Electronics & Communication Engineering. The certification program was enlightening, informed, and stimulating. It was a truly great learning opportunity that exposed students to convert their technical ideas into a product level. All of them appreciated and profited from your comments on this subject.

The Department and the College are grateful for your time, commitment to running the workshop, and efforts to enhance the participants' wellbeing. We sincerely appreciate your consideration of our plea and your prompt action. We are eager to collaborate with you on future projects.

Thanking you,

Yours sincerely,

HoD

(Dr. Siddesh)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Product Development Workshop - Students List

Venue: MEMS Lab Dates: 08.06.2023 to 15.06.2023

S.No	Name of the Student	Signature
1	Manjunath Sajjan	Man.
2	Shri devi	Bui
3	Thejashwi P Acharya	thosp .
4	Lakishmi PB	PB lates
5	Abhishek P Taluekar	Ashishek
6	G. Chelan Kumas Gowda	90 Kuna
7	Kishan	fallen
8	Shoravan.V.	Shravan
9	Praveen Vishwakarma	Fraveenl
10	-Aravinda	Avovinda
11	Rangetha R.	Payenthate
12	Lebina hal	Spanal
13	Vinyashree Jain	Time the .
14	Santhripti CS	ants
15	South?	Shruthi
16	Shwetha	Shwetta
17	Oleha	Dirht
18	Chetana M	@Low.M
19	Young sadashiv Talgarur	100

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20	Jyoti B.P.	Hardinikt
21	Varshini K.L.	
22	Bhavana M.	Cham H
23	Aishwarya Panchagavi	Au
. 24	Harshitha D.K.	this
25	Kahama Tac	Ken
26	Projakta	Prajabla
27	Spoorthi	Spens
28	Alkshay K. somar	den
29	Mohammed Sharfuddhin	QW.
30	Mijay Bhanu.	(20)
31	Soumya, N	
32	proethi.G.M	Here
33	Rakesh Sangshetty.	Parm)
34	chaithroshree . M. G	Chair
35	Rahshetha. 5	Hw.
36	Ramya . K	Ramya
37	Pavan K	Hovers
38	Ponthem	B
39	Akshey Sanjay G. K	Sw.
40	Sanjay G.K	an

Siddesh

H. O. D.

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Certificate

OF COMPLETION

IS PRESENTED TO:

Santrupthi C S

For Completing All Neccessary Tasks and assignments in the PRODUCT DEVELOPMENT WORKSHOP Conducted by AIET MEMS LABORATORY in association with

EmTantra technologies Pvt Ltd

Mr.Santhosh

DIRECTOR EM-TANTRA PVT LTD Dr. Guruprasad B

MEMS CO-ORDINATOR
DEPT OF ECE

Siddesh

Dr. Siddhesh G K

HOD DEPT OF ECE Dr.Peter Fernandes

PRINCIPAL