

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

Phone: 08258-262725, Fax: 08258-262726

DEFARTMENT OF COMPUTER SCIENCE & ENGINEERING

(Accredited by NBA, New Delhi 2019-2025)

Report on Consultancy Projects

Department of Computer Science & Engineering faculty and students are involved in Consultancy Projects. Department currently focus on problem solutions to within the organization and sister institutions of Alva's Education Foundation specially to build websites and Software Developments. The following are the list of projects completed during 2022-23.

Sl. No.	Name of faculty and Students	Client Organization	Title of Consultancy of Project	Status
1	Dr.Manjunath Kotari			Completed
	Toshif H Patil			
	Neerav Patel	Alva's Institute of	Students Academic Welfare	
	Pratheeksha J	Engineering &	(SAW) ERP	
	Ankitha Anand Joshi	Technology, Moodbidri	https://saw-erp.in	
	Tejas Ravi	Moodbidri		
	Akshatha			
	Ganesh M			-
2	Shilpa Ambika Bhavyashree Brinda	nbika Medical College, avyashree Moodbidri http://alvas- csms.herokuapp.com/		Completed
3.	Dr.Manjunath Kotari Mr.Tushith Shukla	Alva's Pharmacy	's Pharmacy alvaspharmacy.rf.gd	
4	Dr.Manjunath Kotari Toshif H. Patil	MBA,AIET	https://mba.saw-erp.in	Completed
5	Dr.Manjunath Kotari Tejas Ravi	Alva's Degree College, Moodbidri	https://degree.saw-erp.in	Completed

HoD CSE

H. O. D.

Dept. Of Computer Science & Engineering Alva's Institute of Engg. & Technology Mijar, MOODBIDRI - 574 225



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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Report of

Website Building Competition

Held on

17/07/2023, 18/07/2023, 19/07/2023 and 31/07/2023

Under

Students Consultancy Cell

Organized by

Department of Computer Science and Engineering



Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

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A website building competition was conducted in Alva's Institute of Engineering and Technology for II and III Year students organized by Department of Computer Science and Engineering from 17th July 2023 To 31st July 2023. The competition was inaugurated by Dr. Manjunath Kotari, HOD, Department of CSE, AIET. The program was coordinated by Abhijith L Kotian, Assistant Professor, Department of CSE, AIET, Moodbidri.

Around 24 students had registered for this event, out of which 17 students from Computer Science and Engineering branch, 5 students from Artificial Intelligence and Machine Learning branch and 2 students from Computer Science and Design branch have participated in this competition.

Day 1: All the students who had registered for the event were grouped into 6 teams consisting of four members in a group. Dr. Manjunath Kotari, HOD CSE, AIET, announced the theme for developing the website as "Tourism places in and around Moodabidri", along with all the rules and regulation that govern the smooth running of the competition for the coming two days. He then wished all the six team to perform well and come up with their best developed website on 19/7/2023 where presentation of the same has to be given by the students.



GROUP	USN	NAME	BRANCH	GROUP	USN	NAME	BRANCH
1	4AL21CS055	K SAFEENA	CSE	4	4AL21CS006	ABHISHEK R G	CSE



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	4AL21CS069	MANVITHA	CSE		4AL21CS068	MANOJ P M	CSE
	4AL21CS090	PALLAVI U	CSE		4AL21CG008	ASHWIN K S	CSD
	4AL21CS094	POORVI K SHETTER	CSE		4AL21CG026	TUSHAR	CSD
	4AL21CS011	AISHWARYA D DANARADDI	CSE	5	4AL20AI013	DELTAN	AIML
2	4AL21CS022	ANKITA JOSHI	CSE		4AL20AI015	GAUTHAM	AIML
1	4AL21CS032	CHETANA GANESH JOSHI	CSE		4AL20AI018	JESWIN	AIML
	4AL21CS401	ARCHANA GANGADHAR HUBLIKAR	CSE		4AL20AI025	MOHAMMED AMAN	AIML
	4AL21CS083	NAREN N	CSE	6	4AL21CS026	BHAGYASHREE S NAIK	CSE
3	4AL21CS084	NEERAV V PATEL	CSE		4AL21CS044	GURU KIRAN P	CSE
,	4AL21CS120	S M HAMSENDRA JAIN	CSE		4AL21CS045	HARSHIKA	CSE
	4AL21Al039	SATHVIK S	AIML		4AL21CS056	KAGWADE ABHISHEK S	CSE

Day 2: Students were trying to develop their website with both the front end and back end for effective designing the website in the given time

Day 3: The panellist for today's program consisted of three member judges

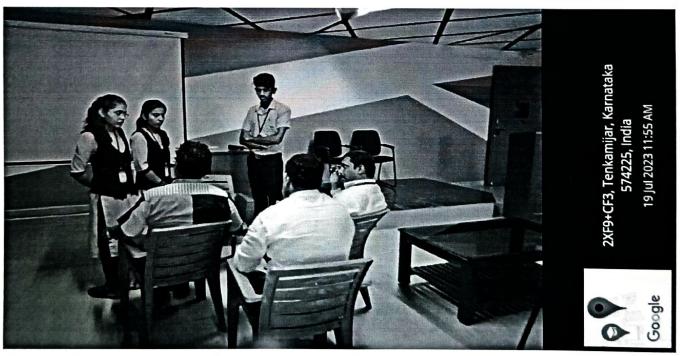
- 1. Dr. Manjunath Kotari, HOD, Department of CSE, AIET
- 2. Dr. Mohideen Badhusha, Professor, Department of CSE, AIET
- 3. Dr. Chandra Naik, Professor, Department of CSE, AIET

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Nijat, WOODBIDRI - 574 225



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING







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After looking at the presentation of the students, all the panel members appreciated the hard work done by all the participants of the event and also mentioned the areas where improvements are required so as to develop a more secure, and ease of design is made possible. At the end Dr. Manjunath Kotari, HOD CSE, AIET said that the second round of the event will be taking place on 31/07/2023 where a winner will be announced and all the other participants will be inducted in one or the other consultancy projects which will be taken up by student's consultancy cell and concluded the event.

Day 4: Final round of website building competition was conducted on 31/07/2023, with 4 teams of 13 participants, out of which 10 students from Computer Science and Engineering branch, 1 students from Artificial Intelligence and Machine Learning branch and 2 students from Computer Science and Design branch participated in the final round of this competition.



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

GROUP	USN	NAME	BRANCH	GROUP	USN	NAME	BRANCH
1	4AL21CS055	K SAFEENA	CSE	3	4AL21CS084	NEERAV V PATEL	CSE
	4AL21CS090	PALLAVI U	CSE		4AL21CS120	S M HAMSENDRA JAIN	CSE
	4AL21C5094	POORVI K SHETTER	CSE		4AL21AI039	SATHVIK S	AIML
	4AL21CS011	AISHWARYA D DANARADDI	CSE	4	4AL21CS006	ABHISHEK R G	CSE
2	4AL21CS032	CHETANA GANESH JOSHI	CSE		4AL21CS068	MANOJ P M	CSE
_	4AL21CS401	ARCHANA GANGADHAR HUBLIKAR	CSE		4AL21CG008	ASHWIN K S	CSD
					4AL21CG026	TUSHAR	CSD



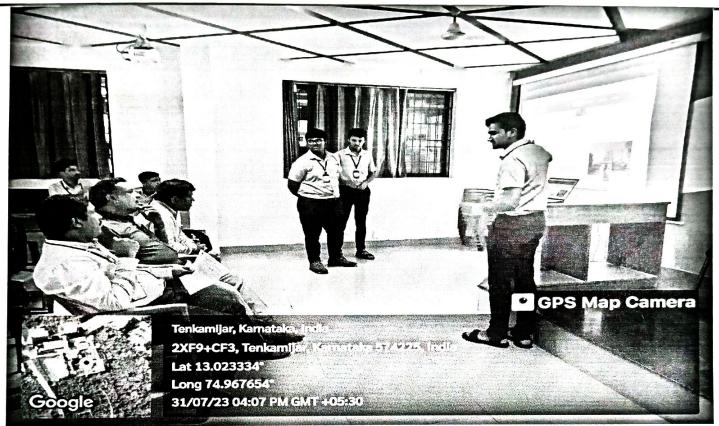


DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING





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The panellist for 31" July .2023 consisted of three judges

- 1. Dr. Manjunath Kotari, HoD, Department of CSE, AIET
- 2. Dr. Mohideen Badhusha, Professor, Department of CSE, AIET
- 3. Dr. Chandra Naik, Professor, Department of CSE, AIET

After looking at the presentation of the students, all the panel members appreciated the hard work done by all the participants. All the panel members unanimously decided that group 4 having team members Abhishek R G, Manoj P M, Ashwin K S and Tushar as the winners and group 3 having team members Neerav V Patel, S M Hamsendra Jain and Sathvik S as the runner up of this event .

At the end Dr. Manjunath Kotari, HOD CSE, AIET encouraged all the participants to participate in such events both at the intra and inter college levels in the future, and soon there will be some consultancy projects on which the students should actively involve in one or the other consultancy projects which will be taken up by student's consultancy cell and concluded the event.

Dept. Of Computer Science & Engineering Alva's Institute of Engg. & Technology

Mijar, MOODBIDRI - 574 225



ALVA'S AYURVEDA MEDICAL COLLEGE

A unit of

ALVA'S EDUCATION FOUNDATION (R.), Moodbidri - 574227

(Affiliated to RGUHS, Bangalore, Recognized by AYUSH, Govt, of India, Apex Body-CCIM, New Delhi)

AAMC/2022/PG/PL/43

06.09.2022

To,

The Principal,

Alva's Institute of Engineering College,

Mijar, Moodbidri.

Respected Sir,

Sub: Requisition to give permission for utilizing the mechanical Department for thesis work.

This is to certify that Dr. Amrutha Chandran is a bonafide I year Post Graduate Scholar in the department of Panchakarma. For the completion of her thesis work she would like to do modify Upanaha equipment with the Mechanical Department of your institution. I request your kind self to do the needful and support her in every possible way.

Thanking you,

prof wiran (1) kersing

De de me

Yours faithfully,

PRINCIPAL

PRINCIPAL

ALVA'S AYURVEDA MEDICAL COLLEGE VIDYAGIRI, MOODUBIDIRE - 574227

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI 590018



A project report on

"DESIGN AND FABRICATION OF EQUIPMENT FOR UPANAHA KALPANA TREATMENT"

Submitted in partial fulfilment of the requirements for the degree of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

D JAYKUMAR

4AL19ME007

PRAJWAL R

4AL19ME019

RAKESH S

4AL19ME024

VENKATASHIVAREDDY

4AL19ME031

Under the Guidance of

Prof. KIRAN C H

Assistant Professor, Dept. of MECHANICAL ENGINEERING



Department of Mechanical Engineering

ALVAS INSTITUTE OF ENGINEERING AND TECHNOLOGY MOODBIDRI-574225, KARNATAKA

2022 - 2023

ALVA'S INSTITUTE OF ENGINEERING AND **TECHNOLOGY**

Mijar, Moodbidri D.K. -574225 – Karnataka



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

Certified that the project work entitled "Design and fabrication of equipment for Upanaha Kalpana treatment"

is a bona-fide work carried out by

D JAYKUMAR 4AL19ME007

PRAJWAL R 4AL19ME019

RAKESH S **4AL19ME024**

VENKATASHIVAREDDY **4AL19ME031**

Are bona-fide student of Mechanical engineering Alva's Institute of Engineering and Technology in partial fulfilment for the award of BACHELOR OF ENGINEERING in

MECHANICAL ENGINEERING OF VISVESVARAYA TECHNOLOGICAL

UNIVERSITY, BELAGAVI, during the year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

Prof. Kiran C H

Project Guide

Dept. Of Mochanical Engineering ad Britis Department Technology

lijar, MOODBIDRI - 574 225

Fernandes

PRINCIPAL Liva's Institute of Engg. & Technolog Mijor. MOODBIDRI - 574 225, D.#

External Viva

Name of the Examiner

1) De G B . Waggar 2) Dr. Neelakamha. V.L

Signature with Date

ABSTRACT

Upanaha Kalpana, an ayurvedic treatment which has been used from ancient time. The poulticeor paste is typically made from a combination of herbs, spices, and other natural ingredients, and is often wrapped in a cloth or bandage to keep it in place. It is commonly used to treat conditions such as arthritis, sprains, strains, and other musculoskeletal injuries. The doctors were facing some difficulties using traditional method, like it is not able to supply required constant heat supply and treatment takes longer duration of 6-8hrs per day for a week. The present study aimed to design and fabricate an efficient and user-friendly Upanaha Kalpana equipment that can improve the delivery of this therapy. The heating system ensures consistent and controlled temperature regulation, allowing for the optimal release of active compounds from the herbal poultices. The supplied heat can be controlled using a monitoring system wherepatients can set the temperature of their desire which is in the range of 25 °C to 65 °C. The equipment's fabrication involved the use of high-quality materials and components, ensuring its durability and reliability. The poultice is applied over the affected region of the patient anddevice is kept over the poultice. This device also helps in reducing the intervention time of a doctor or nurse on regular daily basis. This equipment is made portable so that it can be used everywhere at any point of time. This equipment can significantly improve the effectiveness of this traditional Ayurvedic therapy. This project was tested on 12 patients were we got satisfactory feedback from them. Further study on materials will increase the effectiveness of the device.

Keywords: Upanaha Kalpana, poultice, arthritis, constant heat supply, Monitoring system, portable device.

CHAPTER 32

CONCLUSION

- The results of analytical method and numerical method was satisfied.
- ➤ The equipment made was successful in controlling the flow of heat and monitor the equipment
- > It was able to transfer the required amount of heat to the affected area.
- ➤ The model should be tested on the patients and get their feedback and implement in future scope.



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AAMC/2023/PG/PL/23

23.06.2023

To.

The Principal,
Alva's Institute of Engineering College,
Mijar, Moodbidri.

Respected Sir,

Sub: Letter of Gratitude

We express our sincere gratitude to you, for providing the Upanaha instrument as a part of the thesis work and it has been very useful to the PG scholar.

We appreciate and whole heartedly thank you for your timely support.

Thanking you,

Yours faithfully,

PRINCIPAL

PRINCIPAL

ALVA'S AYURVEDA MEDICAL COLLEGE VIDYAGIRI, MOODUBIDIRE - 574227

Email: principal.aamc@gmail.com Website: www.alvasayurveda.com



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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

Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, NewDelhi.

Recognized by Government of Karnataka.

A+, Accredited by NAAC & NBA (ECE & CSE)

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ALVA'S LED BULB AND TUBELIGHTS MANUFACTURING

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 - 2.2 LED Bulb Manufacturing Steps
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 - 3.2 LED Tubelight Manufacturing Steps
- 4. Quality Control in LED Bulb and Tubelight Manufacturing
 - 4.1 Raw Material Inspection
 - 4.2 Manufacturing Process Control
 - 4.3 Product Testing
- 5. Conclusion

1. Introduction

In this document, we provide a comprehensive overview of the manufacturing processes involved in producing 9W LED bulbs and 20W LED tubelights. These LED lighting products are known for their energy efficiency, durability, and versatility, making them popular choices for various lighting applications.

9W LED Bulb Manufacturing Process

2.1 LED Bulb Components

The key components of a 9W LED bulb are as follows:

- LED Chip: The light-emitting diode chip that produces light when an electric current passes through it.
- Heat Sink: A component that helps dissipate the heat generated by the LED chip to maintain its performance and longevity.
- Driver: The electronic circuitry that regulates the electrical current supplied to the LED chip.
- Lens/Diffuser: A component that provides optical control and dispersion of light emitted by the LED chip.
- Base: Contains electrical contacts for connecting the bulb to the electrical supply.

2.2 LED Bulb Manufacturing Steps

The manufacturing process for a 9W LED bulb typically involves the following steps

- LED Chip Mounting: The LED chips are mounted onto a heat sink using a thermally conductive adhesive to facilitate efficient heat dissipation.
- Driver Integration: The driver circuitry is integrated into the bulb, regulating the electrical current supplied to the LED chip.
- 3. Optics Integration: A lens or diffuser is integrated into the bulb to control and disperse the light emitted by the LED chip.
- 4. Base Attachment: A base with electrical contacts is attached to the bulb for connection to the electrical supply.
- 5. Electrical Wiring: The necessary electrical connections are made between the LED chip, driver, and base.
- 6. Testing and Packaging: The finished LED bulbs undergo rigorous testing to ensure proper functionality and quality. Once tested, they are packaged for distribution.

• 20W LED Tubelight Manufacturing Process

3.1 LED Tubelight Components

The key components of a 20W LED tubelight are as follows:

- LED Modules: Multiple LED modules containing LED chips that emit light when an electric current passes through them.
- Diffuser/Cover: A component that provides optical control and dispersion of light emitted by the LED modules.
- Heat Sink: A component that helps dissipate the heat generated by the LED modules to maintain their performance and longevity.
- Driver: The electronic circuitry that regulates the electrical current supplied to the LED modules.
- Base: Contains electrical contacts for connecting the tubelight to the electrical supply.

The manufacturing process for a 20W LED tubelight continues as follows:

3.2 LED Tubelight Manufacturing Steps

The manufacturing process for a 20W LED tubelight typically involves the following steps:

- LED Module Mounting: The LED modules are mounted onto a heat sink using a thermally conductive adhesive to facilitate efficient heat dissipation.
- Driver Integration: The driver circuitry is integrated into the tubelight, regulating the electrical current supplied to the LED modules.
- Diffuser/Cover Integration: A diffuser or cover is integrated into the tube light to provide optical control and dispersion of light emitted by the LED modules.
- Base Attachment: A base with electrical contacts is attached to the tubelight for connection to the electrical supply.
- 5. Electrical Wiring: The necessary electrical connections are made between the LED modules, driver, and base.
- 6. Heat Sink Integration: The heat sink is integrated into the tubelight to help dissipate the heat generated by the LED modules, ensuring their performance and longevity.
- 7. Testing and Packaging: The completed LED tubelights undergo thorough testing to ensure proper functionality, efficiency, and quality. They are then packaged for distribution.

Quality Control in LED Bulb and Tubelight Manufacturing

Quality control plays a crucial role in ensuring that the manufactured LED bulbs and tubelights meet the required standards. The following aspects are considered in the quality control process:

4.1 Raw Material Inspection

- The inspection of LED chips, heat sinks, drivers, diffusers/covers, bases, and other components to ensure they meet the specified quality standards.
- Verification of the authenticity and reliability of the sourced materials from trusted suppliers.

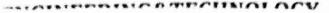
4.2 Manufacturing Process Control

- Implementing standardized manufacturing procedures to ensure consistency and reliability in the production process.
- Regular maintenance and calibration of manufacturing equipment to maintain optimal performance.
- Continuous monitoring of critical process parameters to identify and rectify any deviations or issues.

4.3 Product Testing

- Conducting comprehensive tests on LED tubelights to verify their performance, efficiency, and adherence to safety regulations.
- Testing for parameters such as luminous efficacy, color temperature, power consumption, and heat dissipation.
- Random sampling and quality checks throughout the manufacturing process to identify and rectify any defects or inconsistencies.







5. Conclusion

Able to Manufacture LED bulbs and Tubelight of different watts in House and repairing and testing are done by students of ECE department

Addamal FacultyIncharge:

Ass Prof K.V.Siddamal

Siddeoh

H. O. D.

Dept. Of Electronics & Communication

Aire institute of Engg. & Technology

William accordible - 5/4