AISSMS
COLLEGE OF ENGINEERING
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Accredited by NAAC with "A+" Grade

Department of Electrical Engineering

BE Project Titles

A.Y.2021-22

Sr. No	Roll No	Name of Students	Title of Project
1	19EL301	Aditya Ramesh Bhople	Battery Management Systems
	19EL302	Aniket Appaso Aitawade	
	18EL041	Rituja Padmakar Patil	
	19EL317	Nikhil Subhash Shinde	
2	18EL002	Bavrica Kour Sudan	Automatic gas leak detection using microcontroller
	18EL012	Tanvi Chimte	
	18EL010	Roshani Chaure	
	18EL045	Vedant Singh	
3	18EL006	Aditya Rajnikant Bhise	Regenerative Braking
	18EL008	Yadnyesh Vasant Borse	
	18EL007	Nagaraj Birajdar	
	19EL309	Gayatri Anandrao Lokare	
4	18EL201	Vineet Ashok Gadhave	Automatic Power theft detection on distribution line and service line using Arduino Uno
	19EL303	Girish Bansode	
	19EL306	Anand Shantikumar Ghodake	
	19EL315	Hrutik Ashok Rajpure	
5	17EL038	Onkar Rajendra Patole	Under water Communication using LIFI technology
	17EL047	Sunny Rajendrasingh Tawar	
	17EL026	Vedika Vilas Katkade	
	17EL040	Sanket Vasant Rathod	
6	18EL017	Shrishti Jamdade	Accident detection and vehicle tracking system
	18EL029	Aishwarya Moghekar	
	18EL032	Vaishnavi Pachpute	
	18EL021	Pranav Kedar	
7	18EL034	Kajol Rajendra Patil	IOT based smart Energy Meter and Billing system
	18EL039	Sakshi Shivaji Poul	
	18EL051	Janhavi Yogesh Yewale	
	16EL042	Prajakta Balasaheb Patole	
8	18EL014	Akash Arun Garad	Soft start of Single phase Induction Motor
	18EL026	Ruturaj Udaysingh Machale	
	18EL027	Abhishek Rajkumar Mathpati	
	18EL030	Satyam Shivdas Mundhe	
9	17EL018	Gaikwad Prathamesh Anil	Health Monitoring System of Transformer by using Arduino and GSM Technology
	17EL015	Dhongade Roshan Lalu	
	17EL048	Titkare Smita Suresh	
	17EL041	Rathod Sudarshan Uttamrao	

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10	16EL014	Suraj Jadhav	Three Phase rectifier with LC filter
	16EL037	Akash Patil	
	19EL401	Shruti Somvanshi	
	19EL318	Ashwini Supe	
11	18EL035	Kaustubh Patil	Design and Construction Of an Isolated Dc-Dc Flyback Converter for Solar Application
	18EL038	Jayesh Phalke	
	18EL036	Shreyas Patil	
	18EL024	Abhirup Kumbhar	
12	18EL015	Hussain Bharmal	Dual axis Solar Tracker
	18EL005	Abhishek Bhavsar	
	18EL022	Shehbaz Khan	
	18EL016	Inamul Shaikh	
13	18EL003	Atharva Bhagwat	Design and Implementation of CVT on BLDC motor for Application in Electric Vehicle
	18EL009	Carolyne Varghese	
	18EL019	Yash Kakde	
	18EL018	Shubham Kadam	
14	19EL305	Utkarsh Chavan	Rasberry Pi based Remote VFD Control Through Mobile App
	19EL312	Girish Patil	
	19EL311	Pranav Mulay	
	19EL314	Sayali Pawar	
15	17EL004	Diksha Battise	Smart Mobile charging Station
	17EL009	Shivani Chaudhari	
	17EL031	Sneha More	
	16EL06	Vijaya Jagtap	
16	19EL316	Neha Shinde	IOT based Lineman Protection system
	19EL308	Ashwini Landge	
	17EL003	Aditi Bachhav	
	17EL039	Arya Polas	
17	18EL049	Atul Wakode	Control of Robotic Arm using Arduino
	18EL033	Swapnil Pande	
	18EL028	Sameer Ramchandra Mhaske	
	18EL037	Jayram Pawar	
	18EL042	Khemraj Ravindra Saidane	
18	18EL044	Suyash Shrivastava	IOT based Home security Model
	18EL046	Vikas kumar	
	18EL048	Vishrut Karangale	
		Suraj Shendge	
19	19EL307	Kavita karad	Sanctioned load Monitoring and Controlling using PLC SCADA
	19EL304	Pravin bhoye	
	19EL310	Vaishali mankar	
	19EL313	Shraddha patil	

BE Project Coordinator

Dr.A.A.Apte

HOD Dept.of Electrical Engineering

Dr.A.A.Godbole

Project Exhibition Report

Date:6/05/2022

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Faculty In charge

HOD, Electrical Engineering

Problem solving

Student centric

Design And Development of Ultrasonic Plastic Welding Machine.

Sankit Ingale[1], Atharva Deshpande[2], Tejas Borhade[3], Pranav Dharme[4], Manoj Bauskar[5].

[1,2,3,4] UG Students, Department of Mechanical Engineering, AISSMS COE, Pune, India

[5] Assistant Professor, Department of Mechanical Engineering

ABSTRACT

The ultrasonic welding (UW) process is a fast-coupling process, and is used to join thermoplastic composite structures, and provides excellent bonding strength. It is more expensive compared to conventional adhesive, mechanical and other composite methods. In the paper, we discuss the ultrasonic atomization temperature system, which combines the power supply of an ultrasonic power with a transducer. The high frequency ultrasonic power supply provides high transducer power, and the transducer converts electrical energy into ultrasonic kinetic energy. This project focuses on theoretical analysis and design of the machine system. Based on the analysis and contradiction of the ultrasonic welding power, the ultrasonic welding for specific requirements, other components, provided the parameters for the calculation and selection of methods.

Keywords:
Ultrasonic welding, ABS, Polypropylene, LSS, ED, Polymers Structures, Behavioral research of polymers after UW, Adhesive bonding

1. INTRODUCTION.

Combined items are considered amazing, as all industries focus on weight loss and increase specific strength. Fiber-reinforced compounds are well-suited to the formulation and significantly reduce weight. However, there are still obstacles to achieving their real potential in the industrial production area. Polymer matrix compounds are increasingly used in aerospace, automotive, marine, transport, sports and many other applications, compared to conventional metals. This is due to its low weight, direct strength, corrosion resistance and high fatigue life, compared to steel. The matrix systems used in composites are thermoset and thermoplastic. Recently, thermoplastic compounds have become a much-needed commodity, as these offer many advantages over thermoset compounds. Thermoplastic compounds (TP) are selected for their excellent melting effect, high impact resistance, high productivity, high tolerance, cracking resistance, reusable, flexibility, welding and adjustment, and flexibility. power and its cost-effectiveness compared to thermoset compounds, and these structures attracted its use for highly efficient applications, such as fuselage and wing components of aircraft. Thermoplastic resin has a natural ability to soften when heated above a specified temperature and retains its properties when cooled. Therefore, TP compounds are an attractive candidate for the welding of two identical substances that are a combination of TP or TP. According to industry reports, the most anticipated research guidelines for technological advances in integrated automotive technology, aerospace, sports, marine, offshore and other applications are:

* Reducing the cost of immature items
* Emergence of mass production
* Blending / merging methods for complex composite components
* Reuse provided by the last part of the combination
* Repair and monitor the health of the building to detect damage

In research, various composite methods, such as resistance welding, induction welding, ultrasonic welding, microwave welding, etc., have been used in aerospace structures based on specific applications and requirements.

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E-mail address: author@institute.xxx

Head of Department
Mechanical Engineering
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ICT (Simulation/Program)

A **Project Based Learning-II**

Report on

Wall Mounted Infrared Thermometer

By

Mr. Jagtap Ajit Navnath   Mr. Jagtap Harshal Vivek

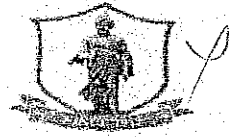Ms. Jalandar Nikita Gopalsing   Mr. Kale Saurabh Arjun

Mr. Kale Shreetej Shyam

Guide

S.V. Chaitanya

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Department of Mechanical Engineering
All India Shri Shivaji Memorial Society's
College of Engineering
[2021-22]

TEAM GARUDASHWA

Every Year We Fly Better

Annual Report 2021-22

Faculty Advisor: Dr. D. Y. Dhande

Who are we?

An International Aero Modeling Collegiate Club from AISSMS COE, Pune that builds, designs and tests RC airplanes. Team Garudashwa was founded in 2015 and participates in various National and International Aero Design Series organized by SAE ISS and SAE International. The team has a rich legacy winning of various events and has achieved at least one award every year since the beginning of the national competitions.

SAE AERO DESIGN WEST 2022

(Advanced Class)

Organized by: - SAE International

&

SAEISS AERO DESIGN CHALLENGE 2022

(Regular Class)

Organized by: - SAE India Southern Section

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ADVANCED CLASS-

Project Timeline:

For a smooth workflow and efficient results, a strict timeline was followed by the team.

➤ The design phase of the Primary Aircraft (PA), Powered Autonomous Delivery Aircraft (PADA) and Ground Transport Vehicle (GTV) was completed between September to December of 2021. It also included the CFD and Structural analysis.

➤ Then the team started with manufacturing of the models which was completed by the end of February 2022.

➤ The flight tests were carried out from February 2022 and around 3 to 4 successful test flights were carried out.

➤ The Design Report was being prepared from November 2020 and was submitted on 28th of February 2022.

Competition Details:

➤ The competition was held in Van Nuys, California, USA.

➤ A Technical Design Report including a 2D drawing of the PA and technical data sheet was submitted.

> ➤ The technical inspection was carried out virtually.
> ➤ Technical Presentation was also held virtually on March 25, 2022.

Achievements:

> ➤ Technical Design Report: **1ST** RANK
>
> ➤ Overall Result: **2nd** RANK
>
> ➤ Technical Presentation: **4th** RANK

SAEISS REGULAR CLASS-

Project Timeline:

> ➤ The design phase of both the aircraft for Regular class was completed between March to April of 2022. It also included the CFD and Structural analysis.
> ➤ Then the team started with manufacturing of the aircraft which was completed in May 2022.
> ➤ The flight tests were carried out from May 2022 and around 3 to 4 successful test flights were carried out.

➢ The Design Report was being prepared from March 2020 and was submitted to the ADC on 10th June, 2021.

Competition Details:

➢ The competition was held at SRM IST, Chennai, India.
➢ A design report including a 2D drawing and Technical Data Sheet was submitted.
➢ The Technical Inspection and Technical Presentation were carried out on 1st September, 2022.
➢ The Flight Event was held on 2nd September, 2022.

Achievements:

➢ Best Aerodynamic Analysis: 1ST RANK

Flight Videos:

Sponsors:

Team Garudashwa 2021-22

Team Members

Ghanshyam Naik (Captain)	Swapnil Tole (Vice-Captain)
Ratish Patil (Design Head)	Prathamesh Orpe (Manufacturing Head)
Akshata Patil	Sanket Amble
Jayesh Bhosale	Atharva Jadhav
Prathamesh Orpe (CAD/CAE Head)	
Siddharth Shitole	Prathamesh Late
Ameya Kulkarni (Avionics Head)	
Shruti Puntambekar	Chaitanya Pawar
Ghanshyam Naik (Report and Presentation Head)	
Akshata Patil	Prernaa Buundele
Ameya Kulkarni (Marketing and Procurement Head)	
Sanket Amble	

Competitions:

SAE ISS Aero Design Challenge

(Regular Class)

SAE Aero Design West

(Advanced Class)

Contacts:

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Swapnil Tole (8007008877)

teamgarudashwa@gmail.com

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- SAE INTERNATIONAL AERO DESIGN WEST 20

- SAE ISS AERO DESIGN CHALLENGE 2022

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Department of Civil Engineering

VISION:-Nurture the talent in Civil Engineers to work as global leaders for development of society.

No. Civil/ **6374**

Date: 16.03.2022

To
The Principal
ABMSP's AnantraoPawar College of Engineering
Parvati, Pune – 411 009

Subject: - Permission for Survey project.

Respected Sir

AISSMS College of Engineering is affiliated to Savitribai Phule Pune University, Pune and recognized by AICTE, New Delhi and Government of Maharashtra. This College is accredited by NAAC with grade A+ in 2018.

As a part of the second year engineering curriculum of Savitribai Phule Pune University, Department of Civil Engineering is interested to carry Survey project of Road and contouring in your campus. Approximate 160 students and five faculties will be present during project work. Kindly permit our students and faculties to complete the project work in your campus on 25th March and 1st April 2022.

Thanking you in anticipation.

Yours faithfully

(Dr. U R Awari)
HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COE, PUNE-1.

APCOER, Parvati, Pune-09	
Inward No.	50872
Date	16|03|2022
Received Time	5:05
Receiver's Name & Signature	A. R. Yadav
Remark	
Principal	

Mission: - **M1**: Provide quality education to develop competent Civil Engineers.
M2: Create awareness among students for sustainable development.
M3: Cultivate the leadership qualities for becoming successful entrepreneurs.

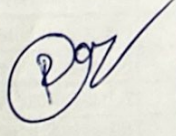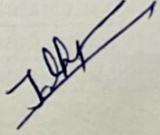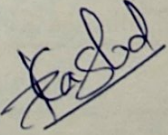PRINCIPAL
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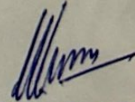
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PBL List for the Academic Year 2021 - 2022 (SEM-II)
S.E. CIVIL(A)
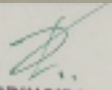
SR.	ROLL NO.	NAME OF THE STUDENTS	PBL Guide	Sign
1	18CV027	Dhangare Jay Eknath		
2	19CV086	Phadatare Kiran Sanjay		
3	20CV001	Abhishek Avinash Waghmare		
4	20CV002	Adhav Dewang Sunil		
5	20CV003	Adil Ahmad Dar	VNP	
6	20CV004	Arbaz		
7	20CV005	Auty Viraj Maluraj		
8	20CV006	Bachate Harshvardhan Rajendra		
9	20CV007	Bachhav Prasad Nimba		
10	20CV008	Barve Ajinkya Moshe		
11	20CV009	Basetwar Vaibhav Arjun		
12	20CV010	Beldar Sanjot Nitin		
13	20CV011	Bhadane Himanshu Dilip		
14	20CV012	Bhaleghare Pratham Pradeep	RDN	
15	20CV013	Bhamare Manas Nanaji		
16	20CV014	Bharekar Rohan Maruti		
17	20CV015	Bhawari Nilanjan Kantaram		
18	20CV016	Bhosale Nikita Namdeo		
19	20CV017	Chaudhari Soham Dinesh		
20	20CV018	Chavan Abhishek Ajay		
21	20CV019	Chavan Rohit Ravindra		
22	20CV020	Chavan Suyash Vijaykumar		
23	20CV021	Chawada Aryan Dhananjay		
24	20CV022	Chirag Pradip Mundada	UJJ	
25	20CV023	Chitte Chinmay Rajesh		
26	20CV024	Chougule Kaustubh Rajesh		
27	20CV025	Dangade Kunal Babasaheb		
28	20CV027	Darekar Suyash Balasaheb		
29	20CV028	Dhanawade Shubham Ravindra		
30	20CV029	Dhumal Prajwal Sunil		
31	20CV030	Dighe Harshal Suresh		
32	20CV031	Divate Girish Mohan		
33	20CV032	Doke Tushar Rajendra		
34	20CV033	Gade Kunal Nandu	KDK	
35	20CV034	Gargam Komal Shankar		
36	20CV035	Gawade Mayur Dhananjay		
37	20CV036	Gawali Yash Rajendra		
38	20CV037	Ghuge Pravin Shivaji		
39	20CV038	Godbharle Vaishnavi Dnyanoba		

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AISSMS's COE, PUNE-1.

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DEPARTMENT OF FIRST YEAR ENGINEERING

FE Project Based Learning (110013) Review-II Evaluation Sheet (AY 2021-22, Term-II)

Group No.	01	Project Title:	Solar Power House		
Guide Name:	A. M. Shete		Type of Activity: Case Study/Model/Develpoment of App/ Any other :		

Group Members: (Individual Evaluation)	Student 1:	Saptadnya A. Ambalkar : 21CV001	Total Marks (Out of 10)	7
	Student 2:	Soham Bankar : 21CV003		8
	Student 3:	Pravin Barbade : 21CV004		7
	Student 4:	Pranav Barde : 21CV005		8
	Student 5:	Vedant Bhondave : 21CV008		7
	Student 6:			

Level of Achievement-Idea Inception overview (Review II)

	Group Evaluation	Excellent (10-9)	Good (8-5)	Average (≤5)	Score (Max-10)					
					Student 1	Student 2	Student 3	Student 4	Student 5	Student 6
a	Study of the Existing Systems	Detailed and extensive explanation of the specifications and the limitations of the existing systems	Moderate study of the existing systems; collects some basic information	Minimal explanation of the specifications and the limitations of the existing systems; incomplete information	7	8	7	8	6	
b	Identify real life problems through rigorous literature survey from socital need point of view (CO-1)	Detailed and extensive explanation of the purpose and need of the project	Average explanation of the purpose and need of the project	Minimal explanation of the purpose and need of the project	7	8	6	9	7	
c	Formulation of Objectives and Methodology proposed (CO-2)	All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified	Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification	6	9	7	8	7	
d	Proposed suitable solution to contribute society using fundamental knowledge of engineering through modern tools (CO-3)	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of knowledge about modern tools	Solutions of the proposed work are either not identified or not well defined; Incomplete and improper solutions	7	8	7	8	7	

Remarks by Panel	1	Model with all energy calculation were expected.
	2	
	3	
	4	
	5	

Panel Members:		Name
	1	Dr. A. B. Patil
	2	A. M. Shete

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DEPARTMENT OF FIRST YEAR ENGINEERING

FE Project Based Learning (110013) Review-II Evaluation Sheet (AY 2021-22, Term-II)

Group No.	2	Project Title:	Eco-bricks from plastic
Guide Name:	A. M. shete.		Type of Activity: Case Study/Model/Develpoment of App/ Any other :

Group Members: (Individual Evaluation)	Student 1: 21CV007	Saurabh Bhoin.wad	Total Marks (Out of 10)	9
	Student 2: 21CV009	Amar Bhondawe		9
	Student 3: 21CV010	Sakshi Bhosale		9
	Student 4: 21CV012	Nitin chavkar		9
	Student 5: 21CV015	Sudesh chavan		8
	Student 6: 21CV002	Ashish Bagde.		8

Level of Achievement-Idea Inception overview (Review II)

	Group Evaluation	Excellent (10-9)	Good (8-5)	Average (≤5)	Score (Max-10)					
					Student 1	Student 2	Student 3	Student 4	Student 5	Student 6
a	Study of the Existing Systems	Detailed and extensive explanation of the specifications and the limitations of the existing systems	Moderate study of the existing systems; collects some basic information	Minimal explanation of the specifications and the limitations of the existing systems; incomplete information	9	9	8	9	7	8
b	Identify real life problems through rigorous literature survey from socital need point of view (CO-1)	Detailed and extensive explanation of the purpose and need of the project	Average explanation of the purpose and need of the project	Minimal explanation of the purpose and need of the project	8	9	9	9	8	7
c	Formulation of Objectives and Methodology proposed (CO-2)	All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified	Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification	9	8	9	9	8	8
d	Proposed suitable solution to contribute society using fundamental knowledge of engineering through modern tools (CO-3)	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of knowledge about modern tools	Solutions of the proposed work are either not identified or not well defined; Incomplete and improper solutions	9	9	9	8	8	8

Remarks by Panel	1	Good model prepared.
	2	
	3	
	4	
	5	

Panel Members:	Name	
	1	Dr. A.B. Patil
	2	A.M. shete

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FE Project Based Learning (110013) Review-II Evaluation Sheet (AY 2021-22, Term-II)

Group No.	03	Project Title:	Automatic Street Light		
Guide Name:	A. M. shede.		Type of Activity: Case Study/Model/Develpoment of App/ Any other :		

Group Members: (Individual Evaluation)	Student 1:	Pushkar B : 21CV006	Total Marks (Out of 10)	7
	Student 2:	Bhagyesh B : 21CV011		7
	Student 3:	Omkar C : 21CV013		7
	Student 4:	Saurabh C : 21CV014		8
	Student 5:	Sumeet C : 21CV016		7
	Student 6:	Riya C : 21CV017		7

Level of Achievement-Idea Inception overview (Review II)

	Group Evaluation	Excellent (10-9)	Good (8-5)	Average (≤5)	Score (Max-10)					
					Student 1	Student 2	Student 3	Student 4	Student 5	Student 6
a	Study of the Existing Systems	Detailed and extensive explanation of the specifications and the limitations of the existing systems	Moderate study of the existing systems; collects some basic information	Minimal explanation of the specifications and the limitations of the existing systems; incomplete information	7	7	7	8	7	7
b	Identify real life problems through rigorous literature survey from socital need point of view (CO-1)	Detailed and extensive explanation of the purpose and need of the project	Average explanation of the purpose and need of the project	Minimal explanation of the purpose and need of the project	6	7	7	9	6	7
c	Formulation of Objectives and Methodology proposed (CO-2)	All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified	Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification	7	6	7	8	7	6
d	Proposed suitable solution to contribute society using fundamental knowledge of engineering through modern tools (CO-3)	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of knowledge about modern tools	Solutions of the proposed work are either not identified or not well defined; Incomplete and improper solutions	7	7	6	8	7	7

Remarks by Panel	1	Actual model is expected.
	2	
	3	
	4	
	5	

Panel Members:		Name
	1	Dr. A.B. Patil
	2	A.M. shede

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FE Project Based Learning (110013) Review-II Evaluation Sheet (AY 2021-22, Term-II)

Group No.	04	Project Title:	Behaviour of Reinforced concrete Beams with coconut shells.			
Guide Name:	A.M.shete		Type of Activity: Case Study/Model/Develpoment of App/ Any other :			

Group Members: (Individual Evaluation)	Student 1:	21CV018: chitriv Parth	Total Marks (Out of 10)	7
	Student 2:	21CV020: Deshmukh Riya		7
	Student 3:	21CV025: Gaikwad Aakash		7
	Student 4:	21CV027: Ghadge Divya.		9
	Student 5:	21CV031: Ghyar Tushar.		9
	Student 6:			

Level of Achievement-Idea Inception overview (Review II)

	Group Evaluation	Excellent (10-9)	Good (8-5)	Average (≤5)	Score (Max-10)					
					Student 1	Student 2	Student 3	Student 4	Student 5	Student 6
a	Study of the Existing Systems	Detailed and extensive explanation of the specifications and the limitations of the existing systems	Moderate study of the existing systems; collects some basic information	Minimal explanation of the specifications and the limitations of the existing systems; incomplete information	7	7	7	9	9	
b	Identify real life problems through rigorous literature survey from socital need point of view (CO-1)	Detailed and extensive explanation of the purpose and need of the project	Average explanation of the purpose and need of the project	Minimal explanation of the purpose and need of the project	6	7	6	8	9	
c	Formulation of Objectives and Methodology proposed (CO-2)	All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified	Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification	7	6	7	9	8	
d	Proposed suitable solution to contribute society using fundamental knowledge of engineering through modern tools (CO-3)	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of knowledge about modern tools	Solutions of the proposed work are either not identified or not well defined; Incomplete and improper solutions	7	7	7	9	9	

Remarks by Panel	1	Methodology is not satisfactory
	2	Actual work not satisfactory
	3	
	4	
	5	

Panel Members:		Name
	1	A.M.shete
	2	V.V.kulkarni

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FE Project Based Learning (110013) Review-II Evaluation Sheet (AY 2021-22, Term-II)

Group No.	05	Project Title:	Cigarette butts recycling.		
Guide Name:	A.M.Shete		Type of Activity: Case Study✓/Model/Develpoment of App/ Any other :		

Group Members: (Individual Evaluation)	Student 1:	21CV019: Dangat Arya	Total Marks (Out of 10)	7
	Student 2:	21CV021: Deshpande Raghav		8
	Student 3:	21CV028 : Ghanvat Samruddhi		7
	Student 4:	21CV029 : Yashraj Gholap		7
	Student 5:	21CV030 : Sagar Gholave		8
	Student 6:	21CV032 : Gosavi Prasad.		9

Level of Achievement-Idea Inception overview (Review II)

	Group Evaluation	Excellent (10-9)	Good (8-5)	Average (≤5)	Score (Max-10)					
					Student 1	Student 2	Student 3	Student 4	Student 5	Student 6
a	Study of the Existing Systems	Detailed and extensive explanation of the specifications and the limitations of the existing systems	Moderate study of the existing systems; collects some basic information	Minimal explanation of the specifications and the limitations of the existing systems; incomplete information	7	8	7	7	8	9
b	Identify real life problems through rigorous literature survey from socital need point of view (CO-1)	Detailed and extensive explanation of the purpose and need of the project	Average explanation of the purpose and need of the project	Minimal explanation of the purpose and need of the project	8	8	7	8	8	9
c	Formulation of Objectives and Methodology proposed (CO-2)	All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified	Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification	7	9	8	7	9	9
d	Proposed suitable solution to contribute society using fundamental knowledge of engineering through modern tools (CO-3)	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of knowledge about modern tools	Solutions of the proposed work are either not identified or not well defined; Incomplete and improper solutions	7	8	7	7	8	8

Remarks by Panel	1	Proper group work expected.
	2	
	3	
	4	
	5	

		Name
Panel Members:	1	A.M. Shete
	2	V.V. Kulkarni

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FE Project Based Learning (110013) Review-II Evaluation Sheet (AY 2021-22, Term-II)

Group No.	06	Project Title:	Smoke Detector.		
Guide Name:	A.M.Shete				

Type of Activity: Case Study/Model✓/Develpoment of App/ Any other :

Group Members: (Individual Evaluation)	Student 1:	21CV022: Dhotre Rajat	Total Marks (Out of 10)	8
	Student 2:	21CV023: Dube Atharv		7
	Student 3:	21CV024: Firodiya Tilak.		8
	Student 4:	21CV033: Hanwate Siddhi		7
	Student 5:	21CV034: Jadhav Atharv		9
	Student 6:	21CV026: Gavade Vinayak		7

Level of Achievement-Idea Inception overview (Review 1)

	Group Evaluation	Excellent (10-9)	Good (8-5)	Average (≤5)	Score (Max-10)					
					Student 1	Student 2	Student 3	Student 4	Student 5	Student 6
a	Study of the Existing Systems	Detailed and extensive explanation of the specifications and the limitations of the existing systems	Moderate study of the existing systems; collects some basic information	Minimal explanation of the specifications and the limitations of the existing systems; incomplete information	8	7	8	6	9	7
b	Identify real life problems through rigorous literature survey from social need point of view (CO-1)	Detailed and extensive explanation of the purpose and need of the project	Average explanation of the purpose and need of the project	Minimal explanation of the purpose and need of the project	9	6	8	7	9	7
c	Formulation of Objectives and Methodology proposed (CO-2)	All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified	Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification	8	7	9	7	8	6
d	Proposed suitable solution to contribute society using fundamental knowledge of engineering through modern tools (CO-3)	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of knowledge about modern tools	Solutions of the proposed work are either not identified or not well defined; Incomplete and improper solutions	8	7	8	7	9	7

Remarks by Panel	1	Need more literature survey.
	2	
	3	
	4	
	5	

Panel Members:	Name
	1 A.M.Shete
	2 V.V. Kulkarni

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FE Project Based Learning (110013) Review-II Evaluation Sheet (AY 2021-22, Term-II)

Group No.	07		Project Title:	SUSTAINABLE CONSTRUCTION		
Guide Name:	A.M.shete.			Type of Activity: Case Study/Model/Develpoment of App/ Any other : ✓		

Group Members: (Individual Evaluation)		Student 1:	21CV035 Gaurav Jadhav	Total Marks (Out of 10)	7
		Student 2:	21CV036 Hriskesh Jadhav		7
		Student 3:	21CV040 Prathamesh Kadam		8
		Student 4:	21CV045 Sanchit Kinholkar		9
		Student 5:	21CV046 Vaishnavi Korlekar		9
		Student 6:			

Level of Achievement-Idea Inception overview (Review II)

	Group Evaluation	Excellent (10-9)	Good (8-5)	Average (≤5)	Score (Max-10)					
					Student 1	Student 2	Student 3	Student 4	Student 5	Student 6
a	Study of the Existing Systems	Detailed and extensive explanation of the specifications and the limitations of the existing systems	Moderate study of the existing systems; collects some basic information	Minimal explanation of the specifications and the limitations of the existing systems; incomplete information	7	7	8	9	9	
b	Identify real life problems through rigorous literature survey from socital need point of view (CO-1)	Detailed and extensive explanation of the purpose and need of the project	Average explanation of the purpose and need of the project	Minimal explanation of the purpose and need of the project	6	7	9	8	9	
c	Formulation of Objectives and Methodology proposed (CO-2)	All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified	Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification	7	6	8	9	8	
d	Proposed suitable solution to contribute society using fundamental knowledge of engineering through modern tools (CO-3)	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of knowledge about modern tools	Solutions of the proposed work are either not identified or not well defined; Incomplete and improper solutions	7	7	8	9	9	

Remarks by Panel	1	Expected more work.
	2	
	3	
	4	
	5	

Panel Members:		Name		
	1	Ankita Gupta		
	2	A.M.shete		

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FE Project Based Learning (110013) Review-II Evaluation Sheet (AY 2021-22, Term-II)

Group No.	08	Project Title:	FLY ASH BRICKS		
Guide Name:	A.M.Shete.		Type of Activity: Case Study/Model✓/Develpoment of App/ Any other :		

Group Members: (Individual Evaluation)	Student 1:	Sameep Kumbalkar (21CV049)	Total Marks (Out of 10)	8
	Student 2:	Mithilesh Jadhav (21CV037)		7
	Student 3:	Ayush Kumar (21CV048)		7
	Student 4:	Ketan Kalamkar (21CV041)		7
	Student 5:	Aary Lagad (21CV050)		8
	Student 6:	Aniruddha Kulkarni (21CV047)		8

Level of Achievement-Idea Inception overview (Review II)

	Group Evaluation	Excellent (10-9)	Good (8-5)	Average (≤5)	Score (Max-10)					
					Student 1	Student 2	Student 3	Student 4	Student 5	Student 6
a	Study of the Existing Systems	Detailed and extensive explanation of the specifications and the limitations of the existing systems	Moderate study of the existing systems; collects some basic information	Minimal explanation of the specifications and the limitations of the existing systems; incomplete information	8	7	7	7	8	8
b	Identify real life problems through rigorous literature survey from socital need point of view (CO-1)	Detailed and extensive explanation of the purpose and need of the project	Average explanation of the purpose and need of the project	Minimal explanation of the purpose and need of the project	7	6	7	8	9	7
c	Formulation of Objectives and Methodology proposed (CO-2)	All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified	Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification	8	7	8	7	8	8
d	Proposed suitable solution to contribute society using fundamental knowledge of engineering through modern tools (CO-3)	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of knowledge about modern tools	Solutions of the proposed work are either not identified or not well defined; Incomplete and improper solutions	8	7	7	7	8	8.

Remarks by Panel	1	Proper design was exepected.
	2	
	3	
	4	
	5	

Panel Members:		Name
	1	Ankita Gupta
	2	A.M.Shete

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FE Project Based Learning (110013) Review-II Evaluation Sheet (AY 2021-22, Term-II)

Group No.	09		Project Title:	BRIDGE CONSTRUCTION			
Guide Name:	Prof. A. M. Shete.						
			Type of Activity: Case Study/Model/Develpoment of App/ Any other :				

Group Members: (Individual Evaluation)	Student 1:	21CV038 Manasvi Jagdale	Total Marks (Out of 10)	8
	Student 2:	21CV039 Akash Jagtap		8
	Student 3:	21CV042 Shreyash kalebag		7
	Student 4:	21CV043 Tejas kamthe		9
	Student 5:	21CV044 Tejas Khomane		.8
	Student 6:	21CV051 Abhishek Lokhande		9

Level of Achievement-Idea Inception overview (Review II)

	Group Evaluation	Excellent (10-9)	Good (8-5)	Average (≤5)	Score (Max-10)					
					Student 1	Student 2	Student 3	Student 4	Student 5	Student 6
a	Study of the Existing Systems	Detailed and extensive explanation of the specifications and the limitations of the existing systems	Moderate study of the existing systems; collects some basic information	Minimal explanation of the specifications and the limitations of the existing systems; incomplete information	8	8	7	9	8	9
b	Identify real life problems through rigorous literature survey from socital need point of view (CO-1)	Detailed and extensive explanation of the purpose and need of the project	Average explanation of the purpose and need of the project	Minimal explanation of the purpose and need of the project	8	9	8	9	7	9
c	Formulation of Objectives and Methodology proposed (CO-2)	All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified	Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification	7	8	7	8	8	9
d	Proposed suitable solution to contribute society using fundamental knowledge of engineering through modern tools (CO-3)	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of knowledge about modern tools	Solutions of the proposed work are either not identified or not well defined; Incomplete and improper solutions	8	8	7.	9	8	8

Remarks by Panel	1	More explaination is required.
	2	
	3	
	4	
	5	

Panel Members:		Name
	1	Ankita Gupta
	2	A. M. Shete

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FE Project Based Learning (110013) Review-II Evaluation Sheet (AY 2021-22, Term-II)

Group No.	01	Project Title:	Hydraulic bridge		
Guide Name:	Ankita Gupta Mam		Type of Activity: Case Study/Model/Develpoment of App/ Any other :		

Group Members: (Individual Evaluation)			Total Marks (Out of 10)	
	Student 1:	Chahul R. Parelliwar		9
	Student 2:	Rohit Nikam		9
	Student 3:	Shivraj Nikam		8
	Student 4:	Dnyanesh Patil		9
	Student 5:	kshitij lokhande.		8
	Student 6:	—		—

Level of Achievement-Idea Inception overview (Review II)

	Group Evaluation	Excellent (10-9)	Good (8-5)	Average (≤5)	Score (Max-10)					
					Student 1	Student 2	Student 3	Student 4	Student 5	Student 6
a	Study of the Existing Systems	Detailed and extensive explanation of the specifications and the limitations of the existing systems	Moderate study of the existing systems; collects some basic information	Minimal explanation of the specifications and the limitations of the existing systems; incomplete information	9	8	8	9	8	
b	Identify real life problems through rigorous literature survey from socital need point of view (CO-1)	Detailed and extensive explanation of the purpose and need of the project	Average explanation of the purpose and need of the project	Minimal explanation of the purpose and need of the project	8	9	9	8	8	
c	Formulation of Objectives and Methodology proposed (CO-2)	All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified	Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification	9	8	8	8	9	
d	Proposed suitable solution to contribute society using fundamental knowledge of engineering through modern tools (CO-3)	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of knowledge about modern tools	Solutions of the proposed work are either not identified or not well defined; Incomplete and improper solutions	8	9	8	9	8	

Remarks by Panel	1	Model prepared
	2	Working of Bridge to be update in presentation.
	3	
	4	
	5	

Panel Members:	Name
	1 Amruta Shete
	2 Ankita Gupta

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FE Project Based Learning (110013) Review-II Evaluation Sheet (AY 2021-22, Term-II)

Group No.	3	Project Title:	Corona Warrior Smart Band		
Guide Name:	Prof. Ankita Gupta		Type of Activity: Case Study/Model/Develpoment of App/ Any other :		

Group Members: (Individual Evaluation)	Student 1:	Mundhe Vivek Ashok	Total Marks (Out of 10)	7
	Student 2:	Mali Rohan Prakash		7
	Student 3:	Loknande Aniket Shrikand		7
	Student 4:	Machale Atharva Ravindra		7
	Student 5:	Mandade Sahil Omprakash		7
	Student 6:	Patil Prathamesh Babaso		8

Level of Achievement-Idea Inception overview (Review II)

	Group Evaluation	Excellent (10-9)	Good (8-5)	Average (≤5)	Score (Max-10)					
					Student 1	Student 2	Student 3	Student 4	Student 5	Student 6
a	Study of the Existing Systems	Detailed and extensive explanation of the specifications and the limitations of the existing systems	Moderate study of the existing systems; collects some basic information	Minimal explanation of the specifications and the limitations of the existing systems; incomplete information	7	7	7	7	7	
b	Identify real life problems through rigorous literature survey from social need point of view (CO-1)	Detailed and extensive explanation of the purpose and need of the project	Average explanation of the purpose and need of the project	Minimal explanation of the purpose and need of the project	7	7	7	7	8	
c	Formulation of Objectives and Methodology proposed (CO-2)	All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified	Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification	7	7	7	7	7	
d	Proposed suitable solution to contribute society using fundamental knowledge of engineering through modern tools (CO-3)	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of knowledge about modern tools	Solutions of the proposed work are either not identified or not well defined; Incomplete and improper solutions	8	7	7	7	8	

Remarks by Panel	1	Model not prepared, Explained working. Satisfactory work, Idea clearance ok
	2	
	3	
	4	
	5	

Panel Members:		Name
	1	Amruta Shete
	2	Ankita Gupta

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FE Project Based Learning (110013) Review-II Evaluation Sheet (AY 2021-22, Term-II)

Group No.	2	Project Title:	Oil seperation from Water Based Sources.		
Guide Name:	Prof. Ankita Gupta		Type of Activity: Case Study/Model/Develpoment of App/ Any other :		

Group Members: (Individual Evaluation)				
	Student 1:	Samruddhi Nalawade	Total Marks (Out of 10)	8
	Student 2:	Mukta Pardikar		9
	Student 3:	Atharva Nigade		8
	Student 4:	Moin Khudbuddin		7
	Student 5:	Harshvardhan Patil		7
	Student 6:			

Level of Achievement-Idea Inception overview (Review II)

	Group Evaluation	Excellent (10-9)	Good (8-5)	Average (≤5)	Student 1	Student 2	Student 3	Student 4	Student 5	Student 6
								Score (Max-10)		
a	Study of the Existing Systems	Detailed and extensive explanation of the specifications and the limitations of the existing systems	Moderate study of the existing systems; collects some basic information	Minimal explanation of the specifications and the limitations of the existing systems; incomplete information	8	9	8	7	7	
b	Identify real life problems through rigorous literature survey from socital need point of view (CO-1)	Detailed and extensive explanation of the purpose and need of the project	Average explanation of the purpose and need of the project	Minimal explanation of the purpose and need of the project	8	9	8	7	7	
c	Formulation of Objectives and Methodology proposed (CO-2)	All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified	Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification	8	9	8	7	7	
d	Proposed suitable solution to contribute society using fundamental knowledge of engineering through modern tools (CO-3)	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of knowledge about modern tools	Solutions of the proposed work are either not identified or not well defined; Incomplete and improper solutions	8	9	8	7	7	

Remarks by Panel	1	Model prepared, Project working well
	2	
	3	
	4	
	5	

	Name		
Panel Members:	1	Amruta shete	
	2	Ankita Gupta	