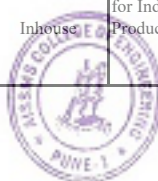




Mechanical Engineering Department

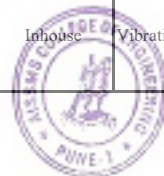
**BE PROJECTS 2015 PATTERN (AY 2022-23)**


Group No.	Name of Students	Name of Guide	In-House / Sponsored	Title of Project
A01	Kshitij Modhe	Dr. S. V. Chaitanya	Inhouse	DEVELOPMENT OF SMART SURVEILLANCE DRONE
	Om Bayas			
	Aniket Ramdas Londhe			
	Aniruddha Kulkarni			
A02	Jadhav Rutuja Hemant	Dr B.D. BACHCHHAV	Inhouse	Tribological performance evaluation of TMPTO based nano lubricants
	Balraj Waghmare			
	Chavan Vedant Vijay			
	Anecha Yash Mukesh			
A03	Shubham Pandurang Landage	Dr. Mangesh R. Phate	Sponsored	Experimental Investigation on Aluminium Based Metal Matrix Composite using Various Natural Wastes
	Aditya Ramesh Ghule			
	Neha Jitendra Kuchekar			
	Rutuja Rupesh Kank			
A04	Akshat Arage	Dr. C. S. CHOUDHARI	Inhouse	DEVELOPMENT OF WIRELESS CHARGING SYSTEM FOR ELECTRIC VEHICLES
	Gourav Sharma			
	Samarjeet Aherrao			
	Soham Ingale			
A05	Pratik Kenche	Dr. C S Dharankar	Inhouse	Bearing Life Testing
	Tejas Lot			
	Omkar Khot			
	Abhishek Khatavkar			
A06	Vedant Aher	Dr S R Patil	Sponsored	Design and Development of solar water heating system using phase change material
	Divya Dhamal			
	Darshan Gawas			
A07	Nikhil Santosh Bundeale	Prof. M.U.Gan	Inhouse	DESIGN AND FABRICATION OF PRESSURE VESSEL FOR COMBINED SEPARATING AND THROTTLING CALORIMETER
	Tanvi Jayprakash Gavhane			
	Nikita Anil Bhamare			
	Sourav Parimal Bhowmick			
A08	Kamble Girish Jagannath	Prof. A.T. Thombare	Inhouse	MULTI POWER GENERATION UNIT USING SOLAR ENERGY, WIND ENERGY AND PEDAL ENERGY
	Bamble Omkar Pandurang			
	Kokane Rahul Murlidhar			
	Ahirrao.P. Abhishek			
A09	Archit Hariom Kale	Prof.G. P. Lohar	Inhouse	Design and Fabrication of Spraying machine
	Shubham Sahebrao Borade			
	Sakshi Vijay Jagdhane			
	Parth Aanasahab Deshmukh			
A10	Ameya Gandhi	Prof.M.P.Bauskar	Inhouse	Conversion of Non-Biodegradable Thermoplastic to Biodegradable Plastic and Investigation of its Mechanical Properties
	Omkar Bhosale			
	Ranjit Kharat			
	Yash Gulhane			
A11	Aryan Rahul Deshpande	Prof. N N Gotkhindikar	Inhouse	Optimization of Process Parameters involved in Fused Deposition Modelling
	Vinaya Gholap			
	Rajeshwari Deshmukh			
	Vaishnav Bendale			
A12	Utkarsh Anil Ekatpure	Dr. M. M. Sayyad	Inhouse	DESIGN AND DEVELOPMENT OF SUGAR CANE BUD CHIPPING MACHINE
	Kundan Shankar Ghorpade			
	Vedant Rameshraj Godbole			
	Dnyanesh Vilas Joshi			
A13	Parag Rajendra Dhamne	Dr. D S Malwad	Inhouse	Design and Development of Rotating Tray for Indirect Solar Dryer for Agriculture Product
	Madhura Ramchandra Gulavani			
	Vishvajeet Vivek Ghatage			
	Shree Khopade			



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A14	Tanaya Jagtap	Prof.Ms. Pranjali Tete	Inhouse	Design and Development of Battery Thermal Management System using PCM and Fins to Improve Battery Life.
	Parth Khedekar			
	Heramb Khandve			
A15	Sagar Navanth Ghalme	Prof.S.T. Gade	Inhouse	Design and Development of hybrid mixer grinder
	Aniket Rajendra Kadam			
	Jalindar Radhakisan Ghadge			
	Bhushan Narendrasing Girase			
A16	Shivam Nitin Deshmukh	Prof.S.S. Khasbage	Inhouse	Efficiency Improvement of Water Cooler Using Suction Line Heat Exchanger With Phase Change Material
	Sanskar Sunil Fursule			
	Nikhil Chakrapani Durgam			
	Harshad Laxman Dighe			
A17	Sahil Nisar Jahagirdar	Prof. S. S. Patil	Inhouse	Design and fabrication of multi axis special purpose drilling machine for fabrication purpose
	Atharva Shankar Thube			
	Harshal Anil Gaikwad			
	Guruprasad Dattaram Kokare			
A18	Pratik Khagesh Jadhav	Prof P.V.Deshmukh	Inhouse	Design and development of harmony vertical axis wind turbine
	Lalikar Tejas Tukaram			
	Ganesh Maroti Khandalkar			
	Atharv Jadhav			
A19	Lakshmi Bakshi	Dr B.D.Bachchhav	Inhouse	Design and development of harmony vertical axis wind turbine
	Siddhant Kasbe			
	Yash Bendre			
	Tanishq Badegar			
A20	Viraj Deshpande	Dr M.S.Deshmukh	Inhouse	Fabrication of PCM based solar air heating system
	Akash Didbhai			
	Suvidha Sanjay Bhosale			
	Rohan Rambhau Chaure			
A21	Omkar Sharad Dalvi	Dr M.S.Deshmukh	Inhouse	Design and Fabrication of Semi- Automatic Mulching Machine
	Atharva Prashant Deokar			
	Shambhuraj Yashvant Chavan			
	Sandesh Deshmukh			
A22	Aniket Digraskar	Dr. S.V.Chaitanya	Inhouse	Productivity Improvement on go-kart vehicle using method study
	Aniket Ambule			
	Manthan Dhobe			
	Rohit Honwadajkar			
B01	Purwant Sharang Dhananjay	Dr. P. S. Gajjal	Sponsored	Design and Development of Waste heat Recovery from a Domestic Refrigerator using tube type heat exchanger
	Rajpure Siddhant Balaso			
	Ranade Saket Ramchandra			
	Rohit Mukund Sobale			
B02	Gaurav Singh	Dr D Y Dhande	Inhouse	Drowsiness detection using deeplearning
	Sonawane Sagar Vijay			
	Siddiqui Faizan			
	Vaishnavi Shisode			
B03	Atharva Pravin Pakhode	Dr S. H. WANKHADE	Sponsored	Design and development of thermal interface material tester
	Vrunda Parmeshwar Mane			
	Urjit Mehta			
	Soham Subhash Rathod			
B04	Vikky Mukund Kale	Prof P.V.Deshmukh	Inhouse	Design and Testing of Vertical Axis Wind Turbine
	Waghmare Avanti Narendra			
	Wadje Vilas Hari			
	Waghole Nikita Vitthal			
B05	Sarvesh Dinkar Patil	Prof R.A.Marne	Inhouse	AMMUNITION DETECTION AND BORDER SURVEILLANCE VEHICLE
	Omkar Pralhad Landge			
	Khagesh Sanjay Patil			
	Jaswant Bharat Patil			
B06	Neeraj Shashikant Maddel	Dr. S.J. Navale	Inhouse	Design and Development of Laser Engraving Machine
	Sanket Sanjay Nartwadekar			
	Yogesh Subhash Bamhande			
	Aashish Shashikant Mahale			
B07	Yogesh Dinesh Nawde	Dr. D Y Dhande	Inhouse	Vibration Analysis of 6215 Bearing
	Ashwathi Ajaykumar Maniyath			
	Pratik Kailas Mahajan			
	Rohit Rahul Sorate			



  
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B08	Saste Atish Machindra	Prof. P. S. Aglawe	Inhouse	Development of Sea Oil Separator
	Nishandar Raj Ramdas			
	Rane Mohit Umesh			
	Shinde Dhiraj Rajesh			
B09	Abhishek Manjarekar	Prof. O.A More	Inhouse	Design and fabrication of Brayton cycle Engine
	Ratish Patil			
	Nitesh Verma			
	Bhagyesh Kore			
B10	Sreyesh Dharne	Prof Mrs M P Shah	Inhouse	Development of Regenerative Shock absorber
	Sharvil Suradkar			
	Vijay Takmoge			
	Aman Pathan			
B11	Prajwal Ashok Rathod	Dr M R Dahake	Sponsored	Design and Development of Automatic Grass Cutting Machine
	Chaitanya Shahaji Petkar			
	Pawandeep Tarsaim Singh			
	Sumedh Sunil Yeolekar			
B12	Prachi Baban Pandhare	Prof.S.A.Ansari	Sponsored	Analyzing Vibrations On IC Engine Using Accelerometer And TOR Device
	Aarti Santosh Nikam			
	Sejal Devraj Palange			
	Sunayana Khandu Mohite			
B13	Suyash Satish Pawar	Prof. V. R. Patil	Inhouse	Stiffness Optimization Of Electronic Control Unit Of Vehicle
	Nitesh Umesh Pampattiwar			
	Sourabh Ashok Sambarwal			
	Mulla Wadoot			
B14	Shruti Puntambekar	Prof.P.G.Kokare	Sponsored	Design, manufacturing and testing of an UAV using EDF for health monitoring of bridge bearing
	Akshata Patil			
	Swapnil Tole			
	Siddharth Shitole			
B15	Durgesh Rajendra Nankar	Prof. M. S. Swami	Inhouse	Experimental Investigation and Failure Analysis of Rolling Contact Bearing
	Raju Ganpati Mali			
	Sahil Sunil Mate			
	Siddhesh Sudhir Mahabare			
B16	Sumedh Rane	Prof.Y.B.Karandikar	Sponsored	Design and Development of Frictionless Braking System
	Saurabh Maskade			
	Anand Zende			
	Sumit Shirtode			
B17	Sayali Santosh Koli	Prof. M. S. Swami	Inhouse	Microscopic Analysis of Rolling Contact Bearing and it's Prediction Using Deep Learning
	Sanyogini Sanjay Mohite			
	Sanyogita Sandeep Rawool			
	Srushti Sunil Shinde			
B18	Sahil Mangesh Pawar	Dr. A. V. Waghmare	Inhouse	Battery Thermal Management System
	Sangram Bhau Mane			
	Suyash Satish Pathade			
	Jyoti Prasad Paithankar			
B19	Dnyaneshwar Thombre	Dr S.H.Wankhade	Inhouse	Prototype Development of Electrostatic Precipitator for Automobile Exhaust Systems
	Rohan Mane			
	Pratul Mulik			
	Shreyas Parchure			
B20	Taksal Pritam Kailas	Dr.A.V.Waghmare	Sponsored	Structural Analysis of Rocket Solid Propulsion System
	Wagh Rajwardhan			
	Suryawanshi Piyush Ramesh			
	Yewale Shivam Arun			
B21	Faizan Ali Saeed Ahmad Sayad	Dr.G.P.Lohar	Sponsored	Design and fabrication of sky saver kit
	Siddhant Warule			
	Sanjiv Yesambare			
	Akshay Waghmare			

**Dr S.J.Navale**  
Project Coordinator

**Dr S.V.Chaitanya**  
Head of Department



**Head of Department**  
**Mechanical Engineering**  
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### CERTIFICATE

This is to certify that the work contained in the project Report entitled "Development of Smart Surveillance Drone", submitted by *Mr. Om Bayas (19ME007)*, *Mr. Aniruddha Kulkarni (18ME062)*, *Mr. Aniket Londhe (19ME053)*, and *Mr. Kshitij Modhe (19ME048)* for the award of the degree of **Bachelors of Engineering (Mechanical)** to SPPU, is a record of bonafide work carried out by Them under my direct supervision and guidance.

I considered that the thesis has reached the standards and fulfilling the requirements of the rules and regulations relating to the nature of the degree. The contents embodied in the thesis have not been submitted for the award of any other degree or diploma in this or any other university.

Date:

Place:

**Dr. S. V. Chaitanya**

**Guide**

**Dr. S. J. Navale**

**Project Coordinator**

**Dr. S. V. Chaitanya**

**Head of Department**

**External Examiner**



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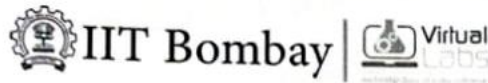


Department of Chemical Engineering

Problem Solving Methods

AY 2022-23

**Student Group-wise Online Problem-Solving Activity**



**Institute :** All India Shri Shivaji Memorial Societys College of Engineering, Pune

**Region :** Pune

**NCID : 62**

**Workshop Date :** 14 Sep 2022

Department	Users	Usage
Chemical Engineering	16	21
Chemistry	1	1
Electrical Engineering	1	3
Total	18	25

**Nodal Coordinator :** Dr. Bhalke Daulappa Guranan

**System Support :** R R itkarkar

**Coordinating Team :** Gandhi sir

**Nodal Coordinator Signature**

**Head of Institute/Principal Signature**

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Institute : All India Shri Shivaji Memorial Societys College of Engineering, Pune

Region : Pune

NCID : 62

Workshop Date : 08 Mar 2022

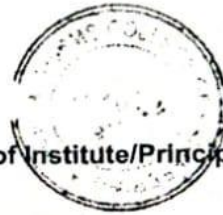
Department	Users	Usage
Chemical Engineering	13	13
Civil Engineering	1	1
Total	14	14

Nodal Coordinator : Dr. Bhalke Daulappa Guranan

System Support : R R itkarkar

Coordinating Team : K B Gandhi

Nodal Coordinator Signature



Head of Institute/Principal Signature

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**Department of Electrical Engineering**

**PROJECT**

**CLASS -BE (Electrical)**  
**SEM - I**

**AY: 2022-23**

**Date: 29/08/2022**

**Titles of the Project**

<b>Group No.</b>	<b>Roll No.</b>	<b>Name of Student</b>	<b>Title of the Project</b>
1	19EL024	Ameya Kulkarni	Energy performance analysis of a commercial building
	19EL003	Maithili Balkawade	
	19EL019	Rushikesh Kajale	
	19EL021	Gauri Khapre	
2	19EL050	Shreya Waghmare	Automatic phase selector system for 3 phase supply
	19EL051	Shruti Surajbansi	
	19EL038	Neelansh Bhambhani	
	19EL015	Pratik Ingle	
3	19EL028	Tushar Mali	IoT based Face Mask Detection and Body Temperature
	19EL057	Akshay Vairagal	
	19EL042	Rohit Patil	
	18EL040	Kiran Ravsaheb Rupanawar	
4	19EL039	Samarth Nirali	Prototype of Adaptive Headlight System for cars
	19EL037	Ritesh Naik	
	19EL041	Prasad Patil	
	19EL054	Hitesh Suryawanshi	



  
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5	19EL006	Sarvesh Anil Bodhe	Mision vision based intelligent quality check of Soyabean
	19EL007	Laxmi Chaudhari	
	19EL030	Sharwari Maske	
	20EL314	Chirag Shah	
6	19EL001	Aarushi Mahajan	Multistage DC to AC variable inverter with 120% load capacity
	19EL032	Pratik Mohire	
	19EL061	Videh Warade	
	20EL304	Pooja Dhabade	
7	19EL048	Venkat Rajarwad	Maharastra State Online Load Display System
	19EL016	Hrutuja Jiwane	
	19EL058	Tejas Vakare	
	19EL009	Supriya Darade	
8	17EL008	Sanket Borse	Automatic Fire Detection and Extinguishing System
	18EL025	Sidharth Lahamge	
	19EL012	Sumit Ghodake	
	19EL004	Susmita Bansode	
9	19EL023	Pranali Krishna	Stability analysis of power system incorporating facts controller
	19EL031	Ruchika Meshram	
	19EL043	Shivam Patil	
	19EL052	Rohan Sonawane	
10	17EL054	Pranjal Yede	
	19EL049	Rithik Rajan	
	19EL017	Junaid Javaid Ganai	
	19EL005	Sarvesh Bhusari	
11	18EL013	Anushka Gaikwad	
	19EL027	Advait Mahadik	
	19EL002	Adarsh Vishwakarma	
	19EL029	Pushkar Malpani	
12	19EL044	Viraj Patil	Implementation of Servo Motor Based Motion Control in Case of Sun Tracking for Prototype Solar Panel System
	19EL045	Yash Patil	



  
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	19EL046	Prafull yadav	
	19EL047	Prathamesh Sampgaonkar	
13	19EL011	Doke rushikesh sanjay	DESIGN AND BUILDING A PROTOTYPE MODEL TO DEMONSTRATE UNDERWATER COMMUNICATION USING LI-FI TECHNOLOGY
	19EL010	Deshmukh om vinod	
	19EL053	Soumit debbarma	
	19EL060	Wabale aditya sharad	
14	19EL008	Harshwardhan Chavan	Third Eye For Blind
	19EL036	Ansarali Nadaf	
	19EL013	Ankit GULUMKAR	
	19EL020	Mahesh karhe	
15	20EL307	Swapnali Holmukhe	Multisatage variable DC to AC inverter with with VVVF drive with 120% overload capacity for goods carrier electric vehicle
	20EL309	Nivedita Kulkarni	
	20EL311	Ritika Patil	
	20EL312	Sakshi Pattewar	
16	20EL303	Utkarsha Yuvraj Chavan	Performance Improvement of Distribution Network by using DSTATCOM
	20EL306	Nilesh Limbaji Ghuge	
	20EL313	Mahammadsakib Raju Sayyad	
	20EL317	Kedar Raghuvir Urane	
17	20EL315	Abhijeet Khulesh Shinde	Motor Drive protection and data logging using IOT fOR electric goods carrier vehicle
	20EL318	Suraj Dattaprasad Zanwar	
	20EL316	Sameer Ravindra Shinde	
	16EL026	Yogita Bapurao Madane	
18	20EL302	Chandgude Shreeyash	Benchmarking of Switched Reluctance Motor with PMSM Motor.
	20EL305	Dhok Payal Doma	
	20EL310	Mali Pranali	



  
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	20EL301	Bhosale Madhavi	
19	19EL022	Aniket Kinkar	Implementation and validation of cvt in electric ATV
	19EL033	Kunal Rajendra More	
	19EL055	Arjun Prakash Taur	
	19EL034	Manjit Manish More	
20	19EL025	Limaye Vaishnav	Design of Electric Two Wheeler
	19EL026	Lokhande Sakshi	
	19EL040	Pakhare Mangesh Balasaheb	
	20EL308	Jagadale Neha Vijay	
21	18EL011	Chavan Manav	Smart phone operated multipurpose agricultural robot
	18EL020	Kalyankar Abhishek	
	18EL023	Kirwale Saourabh	
	19EL014	Ingle Girish	

*Heokate*

**Project Co-ordinator**

*[Signature]*

**HOD**  
 Department of Electrical Engineering  
 AISSMS College of Engineering, Pune



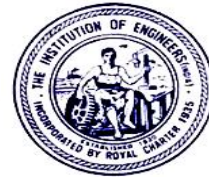
*[Signature]*  
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***Institution of Engineers (India)***

**STUDENTS' CHAPTER, ELECTRICAL ENGINEERING**

# Department of Electrical Engineering

## Project Exhibition

### Report

**Date:** 06<sup>th</sup> May 2023

**Day:** Saturday

**Time:** 09.00 am to 03.00 pm

**Coordinators:**

**HOD: Dr. Mrs. A.A.Godbole**

**Faculty Coordinator: Prof. Mr. V. V. Kulkarni**

**Prof. Mrs. V. N. Tarange**

**Student Coordinator: Mr. Kaustubh Soshte (TE Electrical)**

**Mr. Prasad Ahire(TE Electrical)**

Department of Electrical Engineering, AISSMS College of Engineering, Pune had organised a Project Exhibition on 6<sup>th</sup> May 2023. The objective of the exhibition was to showcase the B.E projects for AY 2022- 23 to T.E and S.E students and also have a third party evaluation so that the B.E students can face their project exam with extra confidence. All 21 groups participated in the event.

The inauguration was a grand ceremony where Chief Guest Mr. Mandar Inamdar, Principal Dr. D.S.Bormane, and H.O.D. Dr. Mrs. A.A.Godbole, all



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faculty & students were present. Principal sir addressed all the students for the also appreciated the efforts of Coordinators and volunteers.

Mr. Mandar Inamdar, Consultant IV Tech Pharma Project Management was the chief guest for the competition, having experience of 30 Years in Electrical Engineering and Automation field ,guided students very patiently. The Other in-house evaluators for this event were Dr. Mr. D. Y. Dhande, Assistant Professor, Department of Mechanical Engineering ,AISSMS COE ,Dr. A A Apte,Associate Professor ,Mr. V V Kulkarni Assistant Professor,and Mrs. P K Sankala ,Assistant Professor , Department of Electrical Engineering AISSMS COE.

One by one each project was evaluated thoroughly by the evaluators with a lot of questions being asked to the participants related to their projects. There were innovative projects such as the agricultural robot, electric two wheeler design, transformer monitoring using IOT,etc...Students from T.E and S.E visited the exhibition and keenly observed the projects.

As per the guidelines received from central Project committee, the evaluation process was done critically by the committee .

The committee comprised of

- 1) Dr. D Y Dhande,Assistant Prof.Mechanical Engineering Department ,AISSMS COE
- 2) Dr. A A Apte ,Associate Professor,Electrical Engineering Department,AISSMS COE
- 3) Mr. V V Kulkarni Assist.Prof, Electrical Engineering Department,AISSMS COE
- 4) Mrs. P K Sankala,Assist.Prof, Electrical Engineering Department,AISSMS COE

Accompanied by

Dr. A A Godbole , HOD Electrical Engineering Department,AISSMS COE

And

Mrs. V N Tarange Assist.Prof, Project co-ordinator Electrical Engineering



Department, AISSMS COE .

The assessment was done on the bases of evaluation sheet received from the central committee.

The best five projects chosen by the committee are as follows:

- 1) IOT remote transformer monitoring.
- 2) Implementation of CVT of BLDC motor.
- 3) Design of electric two wheeler
- 4) Benchmarking of SRM motor with PMSM motor.
- 5) Third eye for blind.

The program ended with vote of thanks.

### Glimpses of the Event :



*Heekate*  
Project Co-ordinator

*He*  
HOD  
Department of Electrical Engineering  
AISSMS College of Engineering, Pune



*He*  
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**SEASON REPORT 2022-23**

AISSMS COE, Pune.

Resonance Racing  
eBAJA



  
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## About Us-

*TEAM RESONANCE RACING IS A GROUP OF STUDENTS FROM VARIED STREAMS OF AISSMS COE. THE TEAM HAS LEARNED THE REAL ESSENCE OF TEAMWORK, RELIABILITY, HARD WORK, TIME MANAGEMENT, ENGINEERING, MANUFACTURING, FINANCE, AND MARKETING. WE BUILD A NEW OFF-ROAD VEHICLE EACH YEAR THAT CAN SURVIVE AND OVERCOME A MULTITUDE OF DIFFERENT TERRAINS AND OBSTACLES. THE TEAM LOOKS FORWARD TO PROFESSIONAL COLLABORATION WITH VARIOUS R&D AND EDUCATIONAL SITES TO HELP BUILD A STRONGER PLATFORM FOR THE YOUNG MINDS IN THE TEAM THAT ASPIRES TO DO THE SAME.*

## Goals-

*To design an off-road electric ATV in pursuit of the perfect balance of speed, strength, and endurance.*

## Our Vision-

*Achieving success in this project would further help us to improve our knowledge and fabricate our racing cars. It would also uplift our college students who dream about the same vision. Closing the gap between industries and college students. It would motivate several aspiring students for innovations in the automobile industry. To improvise both the technical and marketing skills of students.*

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## Team Structure-

## Team List-

Arjun Taur (C)	BE Electrical	19EL055
Aniket Kinker	BE Electrical	19EL022
Sakshi Lokhande	BE Electrical	19EL026
Mangesh Pakhare	BE Electrical	19EL040
Kunal More	BE Electrical	19EL012
Karan Khalate	BE Mech Sand	19MS026
Pritesh Kawade	BE Mech Sand	19MS026
Atharav Karande	BE Mech Sand	19MS023
Shravan Talwalkar	BE Mech Sand	19MS047
Ujwal Bugude	TE Electrical	20EL013
Kunal Pardeshi	TE Electrical	20EL036
Subodh Patil	TE Mechanical	20ME074
Sushank Sisodiya	TE Mechanical	20ME102
Suhani Pawar	TE Mechanical	20ME079
Hindavi Todkar	TE Mechanical	20ME108
Shivam Shinde	TE Chemical	20CH044
Aman Moon	SE Electrical	21EL032
Vaishnavi Pote	SE Electrical	21EL047
Omkar Dhaybar	SE Mechanical	21ME018
Shivanand Jadhao	SE Mechanical	21ME032
Avishkar Jagtap	SE Mechanical	21ME007
Sanket Rahatkar	SE Mechanical	21ME075
Shrikant Dusunge	SE Mechanical	21ME022
Krrishh Shirbhaiye	SE Chemical	21CH038
Aditya Dhole	SE Chemical	21CH006
Aadesh Khaladkar	SE Chemical	21CH019
Vishal Jadhav	SE Mechanical	21ME034

Faculty Advisors	Role
Prof. A. A. Apte	Faculty Advisor
Prof. V. S. Ponkshe	Faculty Advisor



  
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# Team Structure-

## Management

### **Captain – Arjun Taur**

- Manage Co-ordination and Overall Integration of Team Activities.
- Perform administrative functions – reviewing reports, approving expenditures and ensure goal-oriented Project Execution.

### **Vice-Captain – Atharva Karande**

- Lead Technical Designer driving Technical Team Design & Development.

### **Team Manager – Aniket Kinkar**

- Implement, Supervise and Mediate Team Activities to meet Team Objectives.

## Technical Departments

### **I. Design**

Lead – Sakshi Lokhande

Sr. Enginner - Shravan Talawalkar, Pritesh Kawade

Jr. Engineer – Hindavi Todkar

- The main goal was to minimize unnecessary members without compromising the driver safety
- Perform full dynamic analysis on the chassis to obtain deformation for front, side, rear impact and roll over condition.

### **II. CAE**

Lead – Pritesh Kawade

Sr. Enginner - Hindavi Todkar, Suhani Pawar

### **III. BRAKES**

Lead – Kunal More

Jr. Engineer – Shivanand Jadhav

- Designing and CAE Braking System to be implemented.



  
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#### **IV. VEHICLE DYNAMICS**

Lead – Karan Khalate

Sr Engineer – Atharav Karande

Jr. Engineer –Subodh Patil, Sushank Sisodiya,

- Design, simulation of suspension and steering.

#### **IV. e-POWERTRAIN**

Lead – Aniket Kinkar

Sr Engineer – Aniket Kinkar, Mangesh Pakhare

Jr. Engineer –Ujwal Bugude, Suhani Pawar , Kunal Pardesi, Shivam Shinde

- Design, simulation and CAE of transmission system with the help of solidworks, ansys, hyperworks, kissSOFT,
- Design, simulation of electricals on proteus, tinker cad, MATLAB, motorcad & Arduino



  
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## Recruitment:

Recruitment was started on 5<sup>th</sup> April as an aim to recruit new students which will help us with their innovative ideas and also providing them with a unique opportunity to work in industrial, managerial like environment to sustain and develop real engineering skills.

Basic tasks were given and answers were evaluated accordingly. 11 team members were recruited according to their responses, dedication which was evaluated during their interviews. Respective departments were allotted on 2<sup>nd</sup> May.

These recruits were from various departments such as Electrical, Mechanical, and Chemical! Mentors were allotted respective to their departments and weekly tasks were given and at the end of the week a small meeting were carried out.

## Manufacturing Of Chassi:

We started manufacturing the chassis by 1<sup>st</sup> Sep and Completed it by 13 th. September.

Also, Mistakes were done in the design of chassis resulting in updating the chassis,

Then late on we remanufactured with the updated design.

It was inspected by eBAJA mentor Yash Kakade Captain of the eBAJA 2022 season. We received positive feedback.

## Phase-1:

The design phase was started in the month of January 2022. Various team members were involved in the design of the ePowertrain, vehicle dynamics, roll cage and brakes. The fully assembled design was completed at the end of July 2022.

Preparation for Phase-1 started in the month of Sep. team members were involved in the presentation, speech, report writing, and ppt. The presentation was evaluated by Dr A. A. Godbole (HOD Electrical), and faculty advisors Prof. A. A. Apte and Prof. V. S. Ponshe.

We had Our Preliminary round in the month of September , 5 team members participated in Preliminary Round (Phase-1). Our Presentation was scheduled at 11 am and we completed our speech delivery in 14min 10sec. QnA round lasted for 10-12min approximately.

The question asked:-

Questions Preliminary round Season 2022

Question asked by judges:

1. Clearance between controller and firewall
2. Unit of weight and mass



  
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3. What is understeer and oversteer
4. What is steering ratio and gear ratio on steering
5. What is steering yoke
6. Steering output and why it is important
7. Battery casing material
8. Charging onboard and offboard
9. RPN, how to calculate
10. Steering type allowed
11. CAE on wheel Hub
12. Where is maximum stress on wheel hub
13. Mesh size justification
14. What is minimum FOS required on roll cage
15. Heat transfer coefficient
16. Which type of thermal analysis performed on rotor
17. How to minimize brake fluid temperature

The Quiz Round was scheduled for 7 pm. The quiz was decent and we completed all the 50 questions in 30 min.

In the preliminary round of 2023 season

We managed to secure overall 34<sup>th</sup> rank

Whereas, we scored;

Presentation: 51.48/ 75

Quiz: 10.75/ 25

We know we lacked at many things and this score does not define the name Resonance Racing...

We started our marketing campaign simultaneously with full potential, as it was the first year of physical participation, we had to purchase all the components newly and as a result, expected expenditures were high.

Being a new team we had no prior sponsors in manufacturing as well as in funding. Simultaneously the design was finalized at the end of August..

## Phase-2:

Our aim for phase-2 was to improve ranks, utilize newly recruited members and attempt all the events.

In the month of December, we attempted all the events of Phase 2

The Phase 2 was conducted virtually. The event was divided into 2 phases -

### **1. Statics Round –**

In this round various technical as well as non-technical presentations were conducted in virtual manner of Zoom platform.

Technical Events –

- Design Evaluation
- CAE Presentation

Non-technical Events –

- Cost Event
- Sales Event

## Sales Event

Sales event went decent. The objective of the Sales Presentation is for the team to convince the “executives” of a hypothetical manufacturing company to purchase the team’s Baja SAEINDIA vehicle design and put it into production at the rate of 4000 units per year. The Sales Presentation Event presents students with the opportunity to gain real-world experience in taking a concept proposal and presenting it for support, be it funding or otherwise. It is focused on providing students with an entrepreneurial outlook to manufacturing their ATVs. An extensive presentation on the non-technical aspects of a business plan combined with technical skills & hypotheses makes for an interesting and experimental event that tests students’ presentation skills, creative thinking, managerial perspective, and aptitude to



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business essentials such as forecasting, financing, marketing, management, etc. We were able to answer most of the questions asked by the judges and they were satisfied with the answers.

We had a great experience and we are looking forward for the next season.

### Cost Event:

Our team took part in a Cost Event which went Good and PPT presentation was also good.

They also asked us different ways to reduce cost.

We were able to answer all of the judges' inquiries with satisfactory answers

The Question asked were –

1. What is the vehicle's total cost?
2. Where you may reduce overall money on your vehicle
3. Where did you do component optimization?
4. What cost reduction techniques was implemented in Knuckle Design.
5. What is the Sub departmental cost?

At the end they made us realised the experience gained and how important is to manage the overall cost. We had Great Experience in participating the event although it was our debut season, we tried our best.

### Design Evaluation:

We, the eBAJA team, took part in a Design Evaluation event, which went well and received great and constructive feedback from the judges.

The judges asked following questions.

### **Powertrain**

1. What is gearbox mounting tab?
2. Bending of shaft?
3. Length and diameter of rear driveshaft?
4. Calculated L/K?
5. Will axial forces bend the driveshaft?
6. Why did you choose 3kW motor?
7. Which liquid used for motor cooling?
8. Radiator designed or OEM used?
9. Where will be radiator mounted?
10. Maximum temperature motor attaining?
11. Feedback: DVP DFMEA should be world class considering team's prior experience



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## Suspension

1. FOS of Arms?
2. Maximum stress on arms?
3. Yield strength of AISI 4130?
4. How did you calculate FOS?
5. What is load case while calculating FOS?
6. How much is sprung mass?
7. What is total sprung and unsprung mass?
8. Maximum sprung weight of vehicle which is allowed according to rulebook?
9. What type of welding used in linkages and its specs?
10. Considered any weld joint analysis?
11. Manufactured the vehicle?
12. Analysis done for the understeer gradient value?
13. Roll angle considered for vehicle?
14. How much is stopping distance?
15. Feedback: Check FOS, it should be 1.6, recheck analysis.

## Vehicle Integration

1. Current stage of manufacturing?
2. How much weight reduction is done by team compared to basic roll cage assembly?
3. How do you compare your chassis with mBAJA team's chassis?
4. Duration of manufacturing and packaging plan?
5. Feedback: No feedback received considering judges were satisfied with all the answers

## Roll cage and Ergonomics

1. Welding section analysis
2. Use of square-shaped ELC pipe
3. How did you use manikin? How did you perform RULA?
4. What were errors for meshing?
5. Optimization processes used?

## Virtual Dynamics Round –

This round was to replicate the Dynamic Rounds in a virtual manner. In this round the team had to simulate their respective vehicles in IPG CarMaker software.

The teams had to also simulate driver racing style according to different dynamic events like –

- Suspension and Traction
- Maneuverability
- All Terrain Performance
- Acceleration



  
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- Brake Test

The teams were judged based upon their performances in these different events and the judging criteria was the time required to cover the entire track of the respective event.

After successfully completing the phase 2 of BAJA SAEINDIA 2023, we're glad to share result of our Debut season. With every team member's determination, hard work and patience we, the Resonance Racing eBaja Team has secured the following ranks in the specified category.



## Manufacturing and Procurement Phase

The month started with the procurement of OEM components and materials for machining. Simultaneously.



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Basically, this phase mainly focused on outsourcing and assembling the components which was designed .

By December , we have assembled the transmission on the chassis and procured most of the OEM components which are to be mounted.

After the assembly of transmission System , Simultaneously VD manufacturing was started which includes the Track width and Wheelbase fixtures

Later at the end Electrical mountings i.,e Battery , HV and LV Connections was done.



Vehicle Asse



## Full Assembly



  
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On 20<sup>th</sup> February the vehicle was fully assembled it could be possible with every team member's determination, hard work and patience With every team member's determination, hard work and patience.



Considering the Safety Check we had Our First run the day itself, even though the vehicle was not tuned it gave us satisfactory results.

Later on Common team meeting and discussing with our season mentor for proper testing of the vehicle was initiated.

From this Date we had near about a month to properly tune and test the vehicle for the Dynamic Event. With proper timeline and man power we started with testing phase .



## Testing Phase



  
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The Main objective of testing is to understand the vehicles dynamic behavior and to validate it with our Designed Parameters and further tune the vehicle based on event scenarios.

The First few Days testing was carried on the College ground itself so that we could understand the base parameters such as acceleration, Top speed vehicle range etc..



After understanding the base parameters and vehicle performance, the vehicle was shipped to Bhosari for proper and rigorous testing with proper event-based scenarios

With proper testing plan and team dedication we were successfully able to tune our vehicle for each set of events and the performance was promising.



## Unveiling Event



  
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On 30<sup>th</sup> March we had our very first unveiling event where we were proud to unveil our ELECTRIC 4WD “ TITAN X , and will be continuing the legacy of our titan series and entering into a new era of our eBAJA Chapter.



  
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## Phase 3

Our main objective after successfully completing phases 1 and 2 was to compete in phase 3. We were ready with our vehicle Loading and shipping.

The Chitkara University in Baddi, Himachal Pradesh, hosted the third phase of the eBAJA competition. This four-day tournament, held from April 5 to April 8, includes a variety of unique challenges designed to evaluate teams and the performance of their cars.



On 5<sup>th</sup> April , registration was done and pit was allotted. The second day saw the commencement of technical inspections.

Basically Technical inspection main objective is to check whether the vehicle is safe to ride and the The ruleset is followed when a vehicle is manufactured which was provided by the SAE BAJA .

On the First Day We attempted both mechanical and electrical TI. Some changes were said to be made by the Judges regarding the safety concerns , later on the next day we cleared both our Technical Inspections ,



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After Successfully clearing both the TI , we then took our vehicle for the Brake Test

The first attempt had all wheels locked during panic brake and also at achieving max speed of 43 kmph resulting with Brake Test Cleared at First Attempt !!



On the 3<sup>rd</sup> Day we attempted our Dynamic events .

The Phase 3 Consists of various Physical Dynamic events with an overall Score of 250.

The Following are the Various Dynamic Events,

1. Acceleration
2. Maneuverability
3. Sled Pull
4. Suspension & Traction

### **Acceleration**

The Acceleration Event is designed to measure each vehicle's ability to come up to speed quickly from a standing start. .

Acceleration is measured as the time to complete a 30.48 m (100 ft.)

The Event Comprises of a total of 50 Points.

Each Dynamic event have 2 Attempts So in the First attempt of Acceleration we managed to complete in 4.75 Secs and in the Second Attempt we covered in 5.72 secs. From this the best of two scored was considered out of which we Scored a total of 28.53 / 50.

### **Observation**

Due to Some Powerloss due to Belt Slippage of CVT was the main reason for lagging behind.



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## Maneuverability

This Event Comprises a total of 50 Points

This event is used to evaluate how well each vehicle can maneuver through typical Baja terrain, the route may include a range of obstacles, such as sharp curves, ruts and bumps, drop-offs, sand, pebbles, gullies, logs, and inclines.

We managed to Secure All India rank 3.

Maneuverability Score – 45.24/ 50



## Sled Pull

This Event Comprises a total of 50 points .

The teams were asked to pull a tractor weighing 2100 Kg excluding the driver weight. This event was a quite challenging for us .

Sled Pull Score – 10.14/ 50

## Suspension and Traction

This Event carries a total of 100 Points.

Out of which we scored 44.16/ 100 and Secured All India Rank 3



## Endurance



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8th April was the last day when the most awaited endurance race was held .

The endurance event tests each vehicle's capacity to run continuously and at high speeds over tough terrain with obstacles. The endurance course is a closed loop that ranges in length from 1.0 to 4.0 kilometres. The endurance course may have a variety of surfaces (, dirt, grass, sand, mud, gravel, stone, and asphalt). The endurance course will include a variety of hazards and terrain to put the vehicle's durability, traction, and speed to the test.



Due to Some mechanical Failures we couldn't give our best in the race and managed to secure AIR 11 in the endurance and scored 144.48 / 300.



  
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## Results:



After successfully completing the phase 3 of BAJA SAEINDIA 2023, we're glad to share result of our Debut season. With every team member's determination, hard work and patience we, the Resonance Racing eBaja Team has secured the following ranks in the specified category.

### **Overall All India Rank 5**

All India Rank 2 Engineering Design Award

All India Rank 2 Best 4WD Vehicle

All India Rank 3 Maneuverability Event

All India Rank 3 Suspension & Traction

All India Rank 4 Virtual Dynamic Maneuverability

All India Rank 4 CAE Event

All India Rank 5 Virtual Dynamic All Terrain Performance

All India Rank 10 Sales Event



ARAI



HODAD  
Department of Electrical Engineering  
A.I.S.S.M.S. College of Engineering, Pune

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श्रद्धां राक्षसजनिहाय  
(Accredited by NAAC with 'A+' grade)



## AVISHKAR 2023

Event Name : **Zonal Level Avishkar 2022 Competition.**

Event Date : 8<sup>th</sup> December 2022.

Participant Name : Deepali Rajendra Dalvi, Shirish Nandkar , Niraj Sabale and Prachi Kshirsagar

### Detail Report of Event:

Zonal Level Avishkar 2022 Competition was held on 8th December 2022 at AISSMS College of Engineering Pune. The competition was organized for undergraduate and graduate students from various streams. The competition was divided into six categories, namely Humanities, Languages and Fine Arts, Commerce, Management and Law, Pure Sciences and Mathematics, Applied Sciences and Technology, and Medicine and Pharmacy. The competition aimed to encourage students to showcase their research work, innovations, and ideas and provided a platform for them to interact with professional juries.

The Medicine and Pharmacy category had around 200 participants who presented their research work on topics such as "Drug Delivery Systems," "Nanotechnology in Medicine," and "Precision Medicine."

In addition to the categories mentioned earlier, there was another noteworthy project presented by a team of students from AISSMS College of Engineering Pune. The project was titled "Tongue-Based Wheelchair Control System," and it was presented by Deepali Dalvi, Shirish Nandkar, Niraj Sabale and Prachi Kshirsagar. The students were guided by Professor Dr. R.R. Itkarkar and Mr. Nitin Mawale.

The project aimed to provide a wheelchair control system for people with disabilities who are unable to use their hands or legs. The system involved using the tongue as a controller for the wheelchair. The team used a small sensor placed on the face that detects tongue movements, which were then used to control the movement of the wheelchair. The project showcased the potential of technology to improve the quality of life for people with disabilities and highlighted the importance of inclusive design.

Overall, Zonal Level Avishkar 2022 Competition was a great platform for students to showcase their research work, innovations, and ideas. The competition provided an opportunity for students to interact with professional juries and receive feedback on their




  
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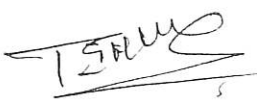
work. The event also highlighted the importance of research and innovation in various fields and encouraged students to pursue their passion with dedication and enthusiasm.


Photos :



Poster presentation at zonals

  
Prof N. P. Mawale  
Mentor

  
Dr R.R.Itkarkar  
Mentor

  
Dr. S.B. Dhonde  
HOD (ENTC)

**Head**  
**Department of Electronics & Telecommunication**  
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Problem Solving Project Based Learning

AISSMS college of Engineering, Pune-1  
Department of E&TC Engineering

Class: SE E&T Project Based Learning (PBL) AY 2022-23 SEM-II

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	22ET305	Jawle Pandurang	9579355280	Jawle.pandurang2@gmail.com		
	22ET308	Pawar Gagan	8390290564			
9	22ET309	Prajwal Singh	7219553577	prajjewal172002@gmail.com		VDW Bhagat
	21ET021	Sanika Hingmire	9067109836	hingmire.sanika@gmail.com		
	21ET011	Ojas Dhadge	9028212040	ojasdhadge16@gmail.com		
	21ET016	Abhijeet Gaikwad	8600127945	abhijeetgaikwad1612@gmail.com		
	21ET019	Leekhanish Ghyar	9209252500	leekhanish.ghyar@gmail.com		
21ET020	Mayur Gini	9975223375	mayurgini07@gmail.com			



10	21ET057	Shaikh.M. Sahil	7499649312	mohdsahil168@gmail.com	SUNAMI Vasudha	VSN Shrawalk
	21ET047	Patil Vaishnavi	7709293160	vvp310503@gmail.com		
	21ET058	Ishwar Singh.S	9021635519	ishwar.shekharwat25@gmail.com		
	21ET048	Sakshi Pawar	8080889409	sakshipawar0603@gmail.com		
	21ET036	Vasudha.K.	7972920586	kvasudha0203@gmail.com		
11	21ET007	Snehal Borhade	8421118273	sneeborhade1234@gmail.com	SnehalB	SBD
	21ET004	Samrudhi Bandi	7249421176	samrudhibandi140@gmail.com	Samrudhi	Samrudhi
	21ET038	Janvi Mahapadi	7666130736	janvimahapadi@gmail.com	Janvi	Janvi
12	21ET017	Sunayana Gaikewad	9096514283	SunayanaGaikewad1536@gmail.com	Sunayana	SBD
	21ET068	Likhita Bujade	9860423339	likhitabujade@gmail.com	Likhita	Likhita
	21ET015	Arya Dombre	8788863942	arya.dombre2002@gmail.com	Arya	Arya
	21ET041	Roshani More	7972984732	roshanimorey742@gmail.com	Roshani	Roshani
	21ET045	Jay Patel	9423979948	Jay08122002Patel@gmail.com	Jay	Jay
13	21ET050	Srushti Petkar	8830057065	srushtipetkar14@gmail.com	Srushti	Srushti
	21ET051	Pranav Birade	9022432447	pranav.birade@gmail.com	Pranav	Pranav
	21ET002	Anand Maratha	8495915230	anandmaratha21@gmail.com	Anand	Anand
	21ET056	Vaishnavi Sawale	7823032274	sawalevaishnavi53@gmail.com	Vaishnavi	Vaishnavi
	21ET037	Kajal Kumbhar	9607464521	kajal.kumbhar.19@gmail.com	Kajal	Kajal
14	21ET067	Yash Waghmare	8600543147	yashwaghmare567@gmail.com	Yash	Yash
	21ET059	Shriyog Shindkar	9272318900	shriyogshindkar99@gmail.com	Shriyog	Shriyog
	21ET060	Pranoti Shiva	9689656744	pranotishiva@gmail.com	Pranoti	Pranoti
	21ET032	Sejal Khole	8308871129	kholesejal096@gmail.com	Sejal	Sejal
	21ET013	Adwait Dhamal	7385106617		Adwait	Adwait
15	21ET003	Atharva Ardhapurkar	779694837	atharvaardhapurkar82412@gmail.com	Atharva	Atharva
	21ET014	Sushil Dhanje	9578573776	sushildhanje1@gmail.com	Sushil	Sushil
	21ET009	Samrudhi Chandsude	9075620515	bhagyashree1562803@gmail.com	Samrudhi	Samrudhi
	21ET065	Ritesh Vhankhade	7796748843	riteshvhankhade@gmail.com	Ritesh	Ritesh
	21ET037	Yashvardhan Magdum	9518341217	yashvardhan017@gmail.com	Yashvardhan	Yashvardhan
16	21ET042	Jaee Murkute	9146757717	jaeemurkute2103@gmail.com	Jaee	Jaee
	21ET049	Sheetal Pawar	7378323640	sheetalpawar036@gmail.com	Sheetal	Sheetal
	21ET002	Rutuja Chikane	9307603833	rutujachikanep2003@gmail.com	Rutuja	Rutuja
	21ET003	Aishwarya Desai	8851807664	aishwaryadesai021@gmail.com	Aishwarya	Aishwarya
	21ET004	Vaishnavi Kadu	801087890	vaishnavikadu@gmail.com	Vaishnavi	Vaishnavi

- Note: 1) All PBL Groups contact your PBL Guide and start working on your Idea and finalize your PBL Topic in O  
2) Also Start working as per PBL Syllabus and report to your PBL Guide Twice in a Week and maintain your  
3) Your PBL Presentation in from of PEC (PBL Evaluation Committee) after Every 2 Weeks.

  
PBL Coordinator

  
HOD E&TC

**Head**

Department of Electronics & Telecommunication  
AISSMS's COE PUNE-411001.



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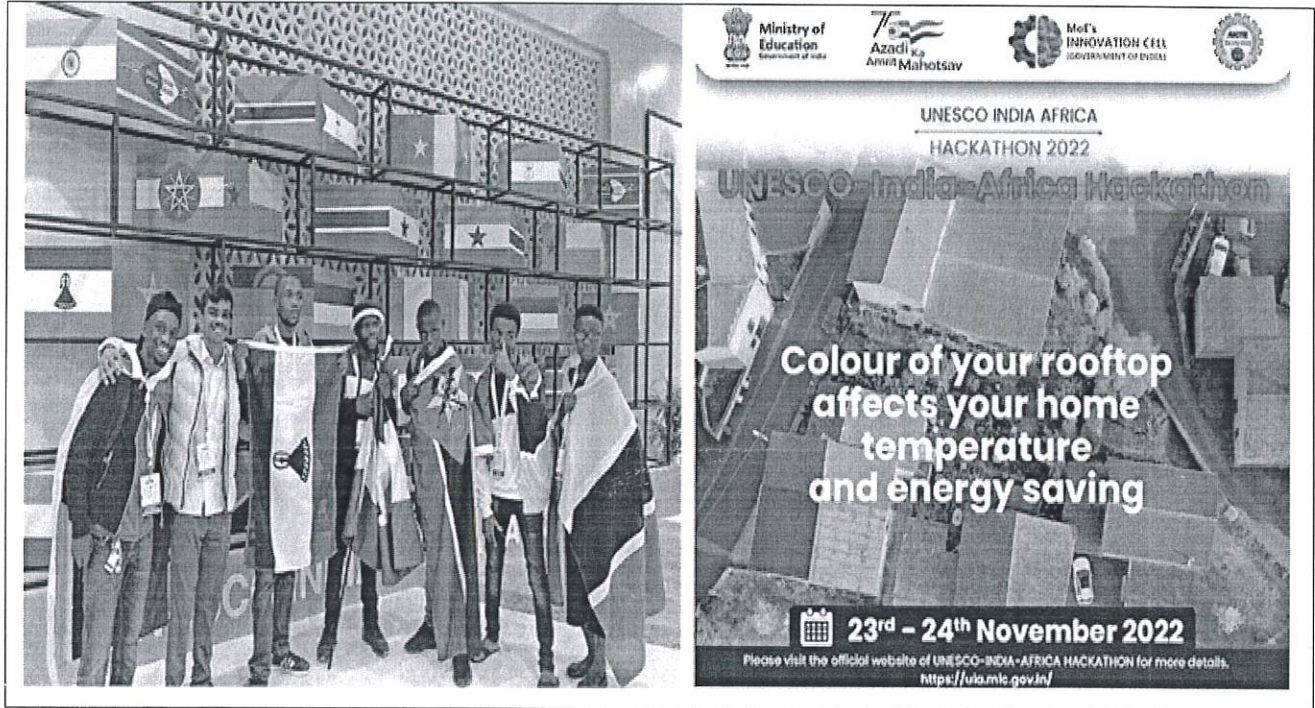
# AISSMS COLLEGE OF ENGINEERING

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**VISION:-Nurture the talent in civil engineers to work as global leaders for development of society**

## Departmental of Civil Engineering



The UNESCO INDIA – AFRICA Hackathon was organized by Ministry of Education, Government of India with 22 other countries. Our student, Mr. Tejas Bang, B E Civil (Leader TEAMSKY) got selected for this competition. This competition brought some teachers and students from different countries together to work on some real field based technical problems. Team TEAMSKY was working continuously 36 hrs on the “App to calculate rooftop area and reflectance from satellite data and estimate saving in electrical units as cooling load decrease by increasing the roof top reflectance by painting it white”. The team received mentoring from Dr Vidya N. Patil, continuous motivation from Dr. P B Nangare, HoD and support from Principal, Dr. D. S. Bormane.

*(Signature)*  
Dr V N Patil

*(Signature)*  
**HEAD OF DEPARTMENT  
CIVIL ENGINEERING  
AISSMS's COE, PUNE-1.**

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.



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**ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY  
COLLEGE OF ENGINEERING, PUNE  
Academic Year – 2022-23 (TERM – II)**

Civil Engineering Department  
Class: S.E. Civil (A)

**PROJECT BASED LEARNING**

SN	Roll No.	Name of Student	Name of Guide	Sign
1	22CV301	Abbad Jayraj Anil	URA	<i>URA</i>
2	21CV001	Ambalkar Sarvadnya Anil	URA	
3	22CV302	Annamwad Mahesh Madhavrao	URA	
4	21CV002	Bagade Ashish Santosh	URA	
5	22CV303	Bagal Rutuja Rajendra	URA	
6	22CV304	Bambale Harshvardhan Ajit	URA	
7	22CV305	Bambale Rajvardhan Ajit	URA	
8	22CV306	Bandal Vaishnavi Santosh	URA	
9	22CV307	Bangi Armaan Rafique	URA	
10	21CV003	Bankar Soham Atul	URA	
11	21CV004	Barbade Pravin Prabhakar	SAC	<i>SAC</i>
12	21CV005	Barde Pranav Shivnath	SAC	
13	21CV006	Bendhari Pushkar Ganpat	SAC	
14	21CV007	Bhoiwad Saurabh Nagorao	SAC	
15	21CV008	Bhondave Vedant Kumar	SAC	
16	21CV009	Bhosale Amar Shivdas	SAC	
17	22CV308	Bhosale Mandar Ramesh	SAC	
18	21CV010	Bhosale Sakshi Sanjay	SAC	
19	22CV309	Bodele Sajan Murlidhar	SAC	
20	21CV011	Bodkhe Bhagyesh Babarao	SAC	
21	21CV012	Chakor Nitin Somnath	SAC	
22	21CV013	Chaudhari Omkar Sunil	SSM	<i>SSM</i>
23	21CV014	Chaukate Saurabh Rajendra	SSM	
24	21CV015	Chavan Sudesh Shekhar	SSM	
25	21CV016	Chavan Sumeet Vijay	SSM	
26	21CV017	Chikane Riya Devidas	SSM	
27	21CV018	Chitriv Parth Pramod	SSM	
28	22CV310	Chopade Pooja Samadhan	SSM	
29	21CV019	Dangat Arya Umesh	SSM	
30	22CV311	Desale Suyash Vishnu	SSM	
31	21CV020	Deshmukh Riya Dnyandeo	SSM	
32	21CV021	Deshpande Raghav Rajesh	SSM	
33	21CV022	Dhotre Rajat Dattatray	MSC	<i>MSC</i>
34	22CV312	Dube Ajay Sanjay	MSC	
35	21CV023	Dube Atharva Abhijeet	MSC	
36	21CV024	Firodiya Tilak Bhushan	MSC	
37	22CV313	Gade Sahil Sharad	MSC	
38	21CV025	Gaikwad Akash Panduarang	MSC	

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*[Signature]*  
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## ACTIVITY REPORT

### Inaugural Ceremony of ISTE Sponsored **"PROJECT BASED LEARNING EXHIBITION & PARENTS MEET 2022- 23"**

**Program Date:** 14th July 2023

**Day & Time:** Friday & 11.00am

**Venue:** AISSMS COE, CITP Seminar Hall

Program Organized by Department of First Year Engineering,

AISSMS College of Engineering,

1, Kennedy Road, Near RTO, Pune-411001

#### **PROGRAM:**

For better learning experience, along with traditional classroom teaching and laboratory learning; project-based learning has been introduced with an objective to motivate students to learn by working in group cooperatively to solve a problem. Project-based learning (PBL) is a student-centric pedagogy that involves a dynamic classroom approach in which it is believed that students acquire a deeper knowledge through active exploration of real-world challenges and problems. Students learn about a subject by working for an extended period of time to investigate and respond to a complex question, challenge, or problem. It is a style of active learning and inquiry-based learning. (Reference: Wikipedia). Problem based learning will also redefine the role of teacher as mentor in learning process. Along with communicating knowledge to students, often in a lecture setting, the teacher will also to act as an initiator and facilitator in the collaborative process of knowledge transfer and development.

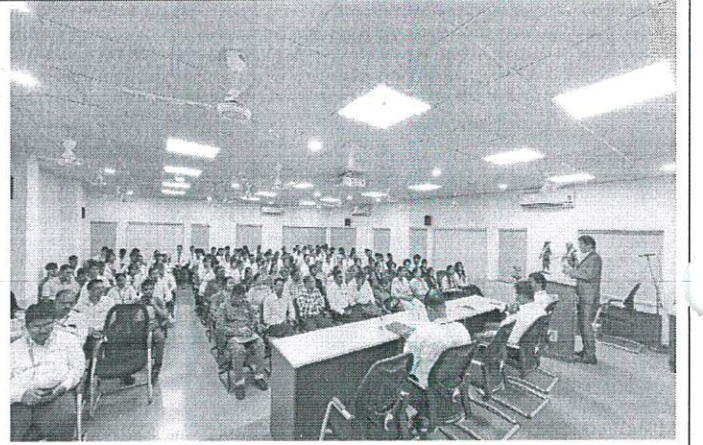
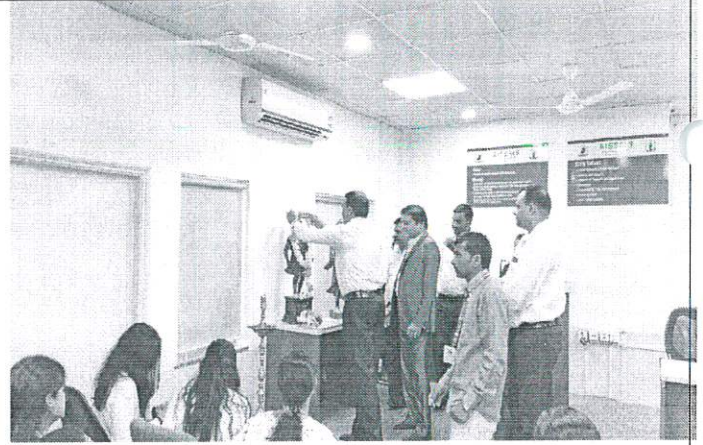
The department of First Year Engineering has taken initiative to organise a Project Base Learning for all first-year engineering students. This event was sponsored by ISTE students' chapter, AISSMS COE Pune. Also, on same day FE parents meet was conducted with the presence of 50 parents. This event was coordinated by Prof. S.S Patil (PBL Coordinator), Dr. D.V Nighot (Head of Department)



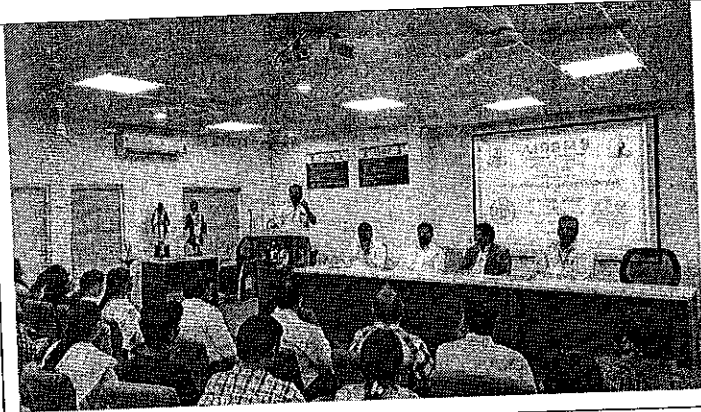
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### INAGURATION CEREMONEY:

The program was followed by enlightening the lamp and garlanding to Shri chatrapati Shahu Maharaj and Shri Chartrapati Shivaji Maharaj. Program was inaugurated by Dr.D.S Bormane (Principal –Cum-Chairperson ISTE Students chapter AISSMS COE), Prof. N.P Mawale (Secretary-Cum-Treasurer ISTE Students chapter AISSMS COE) and Parents in presence of Dr. D V Nighot (HOD FE Dept) and all staff members in CITP Seminar hall. Program anchoring done by Mrs. Merylin D’cruz . First year department introduced by Dr. D V Nighot, Dr .D S Bormane brief about AISSM society, about institute and also brief about importance of PBL in First Year curriculum , Dr. D V Nighot 3 regarding parents query



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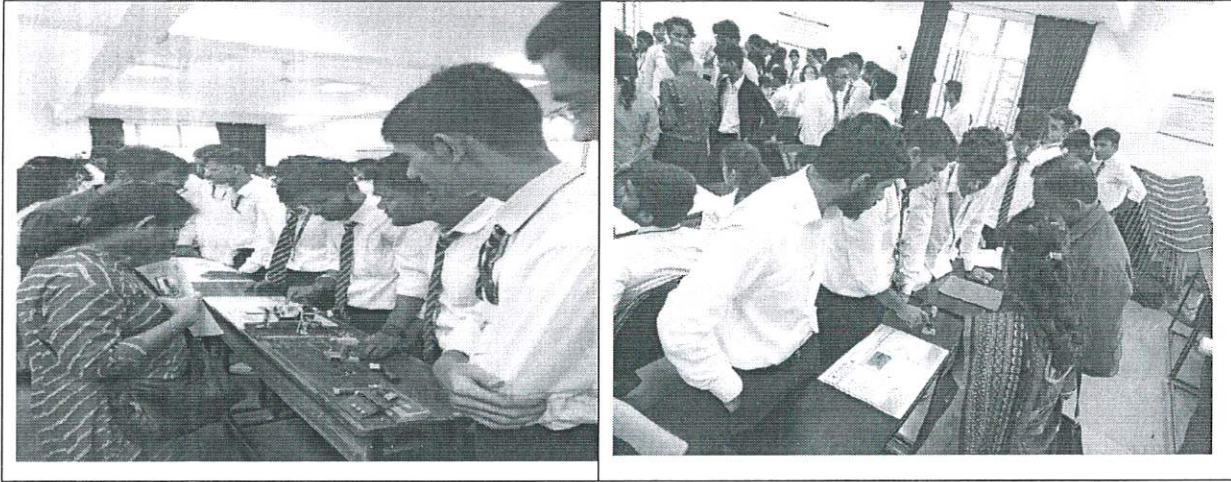


### **PBL EXHIBITION HALL INAGURATAION BY PARENTS:**

The inaugural program marked its conclusion by 12:30 pm. After that all staff with parents visited to exhibition hall for seeing the talent of their ward. Total 130+ projects were available for exhibition. These entire projects were organised in five seminar halls (348,442,443,344,404). The program was further continued by the inauguration of the PBL Exhibition halls by the traditional ribbon cutting ceremony by parents.



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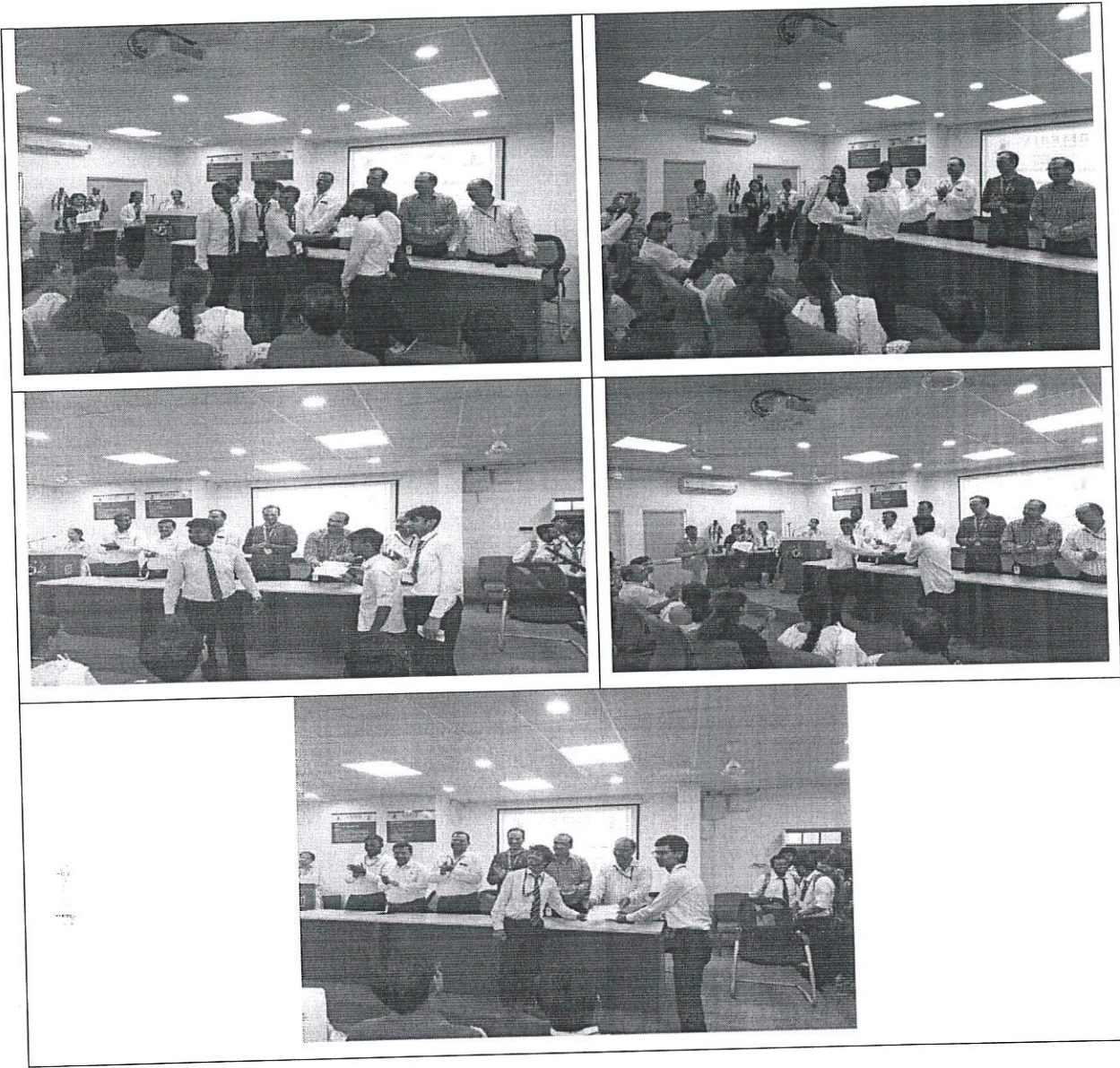
### PRIZE DISTRIBUTION:

Expert committee was appointed for drawing rank for prize distribution. Expert committee members visited to each hall and assessed entire project and submitted report. Total 11 expert members allotted for 05 exhibition halls. The expert committee recommended five best projects among 130 projects. Again at 4:00pm all staff members, parents, students, committee members, ISTE students chapter members, Principal gathered together in CITP hall for Prize distribution. The name of winners announced by Mrs. B.A Patil for prize distribution as follows:

Sr. No.	Rank	Prize (Rs.)	Project Title	Name of Winner
1	First	3000/-	Water Level Indicator	Kunal & team
2	Second	2500/-	Pune Metro Project	Siddhi Darwatkar & team
3	Third	2000/-	Cigarette Management	Atharva Kahire & team
4	Fourth	1500/-	Tsunami Wave	Parth Jaiswal & team
5	Fifth	1000/-	Arduino Based Robot	Pratik Walunj & team
<b>Total</b>		<b>10,000/- (Rs.)</b>		



  
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Program concluded with vote of thanks by Mr.S.S Patil.

*S.S Patil*

PBL Coordinator  
Mr.S.S Patil

*Dr. D.V Nighot*

Head of FE Department  
Dr.D.V Nighot

**Head**  
Department of First Year Engineering  
AISCMS College of Engineering  
Pune-411001



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Name of Guide Mr. Y R Chandawade

### Department of First Year Engineering SEM II A Y 2020-21

### Project Based Learning (110013) Final Review Evaluation Sheet

Div III  
YRC/PDB

Sr. No.	Group No.	Project/Case Study Title-	Roll No.	Exam Seat No	PRN	Name of Student
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CO Mapping

1	1	Teenage suicide cases in India	20MS012	F190210218	72142511K	SHASHWAT SHIVAJIRAO JADHAV
2			20MS030	F190210608	72142871B	UTTEKAR ARYESH DHIRAJ
3			20MS014	F190210246	72142537C	KRISHNA BALASAHEB KADAM
4			20MS009	F190210031	72142349D	ASAWARI DINKAR INGALE
5			20MS031	F190210640	72142903D	WELDE PARTH
6	2	EV battery production & Cost reduction	20MS007	F190210187	72142482B	GAURANG GUJARATHI
7			20MS021	F190210402	72142684M	PATEL YASH JAYANT
8			20MS019	F190210343	72142628L	CHAITANYA MHASKE
9			20MS006	F190210115	72142421L	YASH DAKLIYA
10			20MS025	F190210453	72142727J	MALHAR AJIT PIMPLE
11	3	Cyber Security and crime	20MS015	F190210292	72142581L	PUSHPANJAY HEMKANT KHARKAR
12			20MS002	F190210275	72142564L	KARAN BHONSLE
13			20MS011	F190210532	72142797K	JADHAV SHANTANU SANJAY
14			20MS027	F190210037	72142355J	ATHARWA SUHAS SHIRODKAR
15			20MS005	F190210249	72142540C	KAILASH SOMARAM CHOUDHARI
16	4	Hyperloop system	20MS013	F190210230	72142522E	SHIVSHANKAR
17			20MS018	F190210008	72142327C	ADITYA MANDALE
18			20MS020	F190210388	72142671K	VEDANT CHANDRAKANT PALVE
19			20MS022	F190210400	72142682E	PARTH DINKAR PATIL
20			20MS001	F190210013	72142332K	AGRAWAL JAY GANESH
21	5	Social Marketing	20MS004	F190210461	72142735K	PRERNA BUNDELE
22			20MS008	F190210200	72142494F	NIKHIL A HATTEKAR
23			20MS026	F190210553	72142818F	YOGADA SANTOSH SHINDE
24			20MS028	F190210569	72142834H	PARTH SONAWANI
25			20MS032	F190210656	72142916F	YASH YEVATEKAR
26	6	Hydrogen Fuel Cell Vehicles	20MS010	F190210209	72142503J	SUMEET SURESH IRALE
27			20MS016	F190210003	72142322B	ABHISHEK PRASHANT KULKARNI
28			20MS024	F190210430	72142711B	YASH DIPAK PATIL
29			20MS003	F190210078	72142388E	JAYESH DATTATRAY BHOSALE
30			20MS023	F190210424	72142705H	SIDDHESH MAHESH PATIL
31			20MS029	F190210379	72142663J	NIRANJAN JITENDRA URKUDE
32			20MS017	F190210316	72142601J	PRATHAMESH GIRISH LATE

*Y.R. Chandawade*  
Dr. D. V. Nigat  
Name & Signature of HOD

Head  
Department of First Year Engineering  
AISSMS College of Engineering  
Pune-411001



*Y.R. Chandawade*  
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Name of Guide Mrs. B.S Bodey

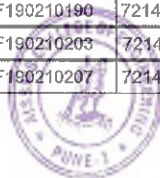
Department of First Year Engineering  
SEM II A Y 2020-21

Project Based Learning (110013) Final Review Evaluation Sheet

Div VI

BSB/SSP

Sr. No.	Group No.	Project/Case Study Title-	Roll No.	Exam Seat No	PRN	Name of Student
<b>CO Mapping</b>						
1	Group 1	Global Warming	20CV002	F190210005	72142324J	ADHAV DEWANG SUNIL
2			20CV003	F190210005	72142324J	ADIL AHMED DAR
3			20CV005	F190210041	72142359M	AUTY VIRAJ MALURAJ
4			20CV006	F190210046	72142364H	BACHATE HARSHVARDHAN RAJENDRA
5			20CV007	F190210047	72142365F	BACHHAV PRASAD NIMBA
6	Group 2	Concrete Filled Steel Tubes	20CV008	F190210055	72142369J	BARVE AJINKYA MOSHE
7			20CV009	F190210056	72142370B	BASETWAR VAIBHAV ARJUN
8			20CV010	F190210059	72142373G	BELDAR SANJOT NITIN
9			20CV011	F190210061	72142374E	BHADANE HIMANSHU DILIP
10			20CV012	F190210063	72142376M	BHALEGHARE PRATHAM PRADEEP
11	Group 3	Impact of Plastic on Environment	20CV013	F190210064	72142377K	BHAMARE MANAS NANAJI
12			20CV014	F190210069	72142381H	BHAREKAR ROHAN MARUTI
13			20CV015	F190210071	72142383D	BHAWARI NILANJAN KANTARAM
14			20CV016	F190210079	72142389C	BHOSALE NIKITA NAMDEO
15			20CV017	F190210096	72142404L	CHAUDHARI SOHAM DINESH
16	Group 4	Solar Rays Tracking System-Smart flower	20CV018	F190210099	72142406G	CHAVAN ABHISHEK AJAY
17			20CV019	F190210101	72142408C	CHAVAN ROHIT RAVINDRA
18			20CV020	F190210103	72142409M	CHAVAN SUYASH VIJAYKUMAR
19			20CV021	F190210105	72142411C	CHAWADA ARYAN DHANANJAY
20			20CV023	F190210109	72142415F	CHITTE CHINMAY RAJESH
21	Group 5	Research about materials used in old Monuments	20CV024	F190210111	72142417B	CHOUGULE KAUSTUBH RAJESH
22			20CV025	F190210117	72142423G	DANGADE KUNAL BABASAHEB
23			20CV026	F190210118	72142424E	DAREKAR PRANAV PRADEEP
24			20CV027	F190210120	72142426M	DAREKAR SUYASH BALASAHEB
25			20CV028	F190210132	72142434B	DHANAWADE SHUBHAM RAVINDRA
26	Group 6	The Sociological Impact of Social Media on Local Communities	20CV029	F190210141	72142443M	DHUMAL PRAJWAL SUNIL
27			20CV030	F190210196	72142490C	DIGHE HARSHAL SURESH
28			20CV031	F190210144	72142445H	DIVATE GIRISH MOHAN
29			20CV032	F190210147	72142448B	DOKE TUSHAR RAJENDRA
30			20CV033	F190210149	72142450D	GADE KUNAL NANDU
31	Group 7	Effect of oil spill on Marin life	20CV034	F190210156	72142457M	GARGAM KOMAL SHANKAR
32			20CV035	F190210162	72142459H	GAWADE MAYUR DHANANJAY
33			20CV036	F190210649	72142912C	GAWALI YASH RAJENDRA
34			20CV037	F190210169	72142465B	GHUGE PRAVIN SHIVAJI
35			20CV038	F190210172	72142468G	GODBHARLE VAISHNAVI DNYANOBA
36	Group 8	Handiling Packaging waste of online shopping	20CV039	F190210180	72142476H	GOSAVI TANMAY DNYANESHWAR
37			20CV040	F190210189	72142484J	GUNJAL VEDANT MILIND
38			20CV041	F190210190	72142485G	GURAP DEVAYANI SHASHIKANT
39			20CV042	F190210203	72142497L	HIRE MANDAR RAVINDRA
40			20CV043	F190210207	72142501B	INGALE ASHISHKUMAR JAYAWANT





41	Group 9	Rooftop water harvesting	20CV044	F190210208	72142502L	INGALE PRASHANT KALURAM
42			20CV045	F190210212	72142506C	JADHAV ABHISHEK BALAJI
43			20CV046	F190210216	72142509H	JADHAV SANKET POPAT
44			20CV047	F190210222	72142515B	JADHAV TEJAS VISHWAS
45			20CV048	F190210043	72142361C	JAGTAP AVISHKAR SATISH
46	Group 10	Blocks from solid non disposable waste product for sustainable future	20CV049	F190210236	72142528D	JAWALKAR MANTHAN MAHENDRA
47			20CV050	F190210239	72142531D	JAYBHAYE SAKSHI SURESH
48			20CV051	F190210565	72142830E	JOSHI SOHAM SHRIRAM
49			20CV052	F190210253	72142544F	KALA SAMYAK SHONIT
50			20CV053	F190210254	72142545D	KALE DEVASHISH PRADIP
51	Group 11	3D Print Homes	20CV054	F190210255	72142546B	KALE PRATIK BALU
52			20CV055	F190210261	72142552G	KALE YUVRAJ DATTATRAY
53			20CV056	F190210270	72142559D	KAMTHE SAHIL KALURAM
54			20CV057	F190210273	72142562D	KAPRE PARTH PRASAD
55			20CV058	F190210276	72142565J	KARLEKAR DHANSHREE SANJEEV
56	Group 12	Military Application of Smart Sensors	20CV060	F190210531	72142796M	KESEKAR SHAMBHURAJ SURYAKANT
57			20CV061	F190210285	72142574H	KHAIRNAR VIRAJ BALU
58			20CV062	F190210652	72142914K	KHANOLKAR YASHWANT PARASHURAM
59			20CV063	F190210291	72142580B	KHARE KALPESH SHANTARAM
60			20CV064	F190210604	72142868B	KOLATE TRUPTI ARVIND
61	Group 13	Carbon Collector	20CV065	F190210307	72142594B	Kulkarni Sakshi Anant
62			20CV066	F190210309	72142596J	Kumbhar shubham jaysing
63			20CV067	F190210319	72142604C	Londhe neha nandkumar
64			20CV068	F190210321	72142606K	Magar Akash Vikas

*Dr. D.V. Nigot*  
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Name of Guide Mrs. A..M Shete

Department of First Year Engineering

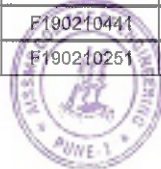
SEM II A Y 2020-21

Project Based Learning (110013) Final Review Evaluation Sheet

Div IX

AMS/STG

Sr. No.	Group No.	Project/Case Study Title-	Roll No.	Exam Seat No	PRN	Name of Student
<b>CO Mapping</b>						
1	A	Pioneering Mars	20EL038	F190210411	72142692B	PATIL CHAITANYA UMESH
2			20EL037	F190210406	72142687F	PATIL ABHISHEK
3			20EL013	F190210093	72142401F	BUGUDE UJWAL UDAYAKUMAR
4			20EL039	F190210579	72142844E	SURAJ GANESH PATIL
5			20EL036	F190210393	72142675B	PARDESHI KUNAL KIRAN
6	B	Reinforcement learning in robots	20EL034	F190210362	72142647G	NABEDA CHAITANYA BHIKCHAND
7			20EL032	F190210345	72142630B	MISAL PRATIK SANJAY
8			20EL033	F190210351	72142636M	MOHITE SANIKA DINESH
9			20EL053	F190210630	72142893C	SHEJAL SANJAY WAGHMARE
10			20EL012	F190210091	72142399L	BORUDE NIKHIL MITTHU
11	C	Electric Car it's problem's & solution	20EL001	F190210004	72142323L	ACHAL JAYANT TAPRE
12			20EL004	F190210032	72142350H	ASHTEKAR MANAS MUKUND
13			20EL005	F190210038	72142356G	ATHAWALE SAHIL SANJAY
14			20EL006	F190210036	72142354L	ATHARVA VISHAL BADHE
15			20EL020	F190210193	72142487C	ATTAR HAFIEZA AKBAR
16	D	Solving the problem of fake news	20EL019	F190210175	72142471G	GOLE SAHIL JAYWANT
17			20EL007	F190210050	72142367B	JARE YASHVARDHAN CHANDRAK
18			20EL014	F190210104	72142410E	JAVHAN SWARAJ SINGH BHARAT SINGH
19			20EL009	F190210074	72142385L	BHOI DATTARAJ ARUN
20			20EL045	F190210580	72142845C	SURAJ SANJAY METE
21	E	Internet of Things (IoT)	20EL035	F190210363	72142648E	JAGARKAR DARSHANA MANGESH
22			20EL031	F190210340	72142625F	MADHAVI BAPURAV MARWADKAR
23			20EL015	F190210153	72142452L	GAIKWAD SACHIN GANESH
24			20EL044	F190210549	72142814C	RANJITSINH BHARAT SHINDE
25			20EL043	F190210523	72142790B	SHIVAM VINAYAK SAWANT
26	F	Real news through offline source	20EL021	F190210198	72142492K	TKANGANE AKASH DNYANESHW
27			20EL017	F190210168	72142464D	GHORPADE VISHAL LAXMAN
28			20EL016	F190210240	72142532B	JAYDEEP RAHUL GANGE
29			20EL008	F190210058	72142372J	BAVISKAR DIPTESH SUDHIR
30			20EL003	F190210027	72142345M	ANIKET RANJAN SAHU
31	G	Audience specific application	20EL055	F190210643	72142906J	YADAV RAVI MAHRAJ DIN
32			20EL018	F190210210	72142504G	ISHA GANESH GITE
33			20EL042	F190210514	72142781C	SAHIL RISHIKESH SARVADE
34			20EL011	F190210089	72142397D	BONDE BHUVANESH RAJENDRA
35			20EL022	F190210205	72142499G	HUMNE ANURAJ SUNIL
36			20EL040	F190210441	72142719H	PAWAR SHREYAS VIJAY
37			20EL026	F190210251	72142542K	KAKADE KUNAL BHASKAR



38	H	Online businesses are stuck because of Covid-19	20EL049	F190210598	72142862C	SAKSHI RAJENDRA THORAT
39			20EL028	F190210284	72142573K	KESARKAR ANKITA ANANDA
40			20EL047	F190210589	72142854B	THAKARE JUHI VINOD
41	I	Life management skills	20EL002	F190210016	72142334F	AJIT BALASAHEB SAWARE
42			20EL030	F190210333	72142618C	MANE DIGVIJAY TANAJI
43			20EL041	F190210480	72142749K	RAUT SAURABH ANNA
44			20EL023	F190210221	72142514D	JADHAV TEJAS BHAUSAHEB
45			20EL054	F190210632	72142895K	WAGHMODE VIVEK GOPAL
46	J	Power generation on highway by savanious wind turbine	20EL027	F190210265	72142556K	KAMBLE ASHUTOSH DNYANDEO
47			20EL029	F190210314	72142600L	LAMBHATE SAGAR VIJAY
48			20EL010	F190210075	72142386J	BHOITE VAIBHAV TATYASAHEB
49			20EL048	F190210596	72142860G	THORAT NIKHIL NANASO
50			20EL046	F190210586	72142851H	AMAR RAMESH TAMBULE
51			20EL025	F190210245	72142536E	KADAM ATHARVA ARUN
52	K	Hydrogen Fuel Cell Vehicle	20EL024	F190210624	72142887J	VIVEK JADHAV
53			20EL052	F190210629	72142892E	WAGHMARE NUPUR MUKINDA
54			20EL051	F190210607	72142870D	UGALE ADINATH GANESH

*Dr. D.V. Nighot*

Dr. D.V. Nighot

Name & Signature of HOD

Head

Department of First Year Engineering  
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Name o

Div II  
YBK/RVG

Sr. No.	Group No.	Project/Case Study Title-	Roll No.	Exam Seat No	PRN	Name of Student
CO Mapping						
1	1	Vehicle Specifications Gearbox Types	20ME059	F190210493	72142760L	RUSHIKESH RAMCHANDRA MANE
2			20ME060	F190210280	72142569M	KAUSHAL MATRE
3			20ME061	F190210355	72142640K	MORE KAUSHAL GULAB
4			20ME062	F190210358	72142643D	MUKE MANTHAN GOVINDRAO
5			20ME063	F190210361	72142646J	MURKAL SEJAL SHANKAR
6	2	Laws of Thermodynamics Heat Transfer Modes	20ME064	F190210366	72142650G	NALAWADE SHANTANU MOHAN
7			20ME065	F190210156	72142455E	GANESH PRAKASH NIKUMBH
8			20ME066	F190210238	72142530F	JAY ADITYA PALKAR
9			20ME067	F190210395	72142677J	PARKALE ABHISHEK RAJESH
10	3	Anti Lock Braking System (ABS) Power Plants in India	20ME068	F190210398	72142680J	PRALHAD NAGNATH PARSURE
11			20ME069	F190210408	72142689B	PATIL ALOK DEVIDAS
12			20ME070	F190210414	72142695G	DHARMRAJ SHAMBHURAJE PATIL
13			20ME071	F190210418	72142699K	PATIL PRATIK PRAVIN
14			20ME072	F190210419	72142700G	ROHAN RAJENDRA PATIL
15	4	Engine Specifications Engine Components	20ME073	F190210420	72142701E	PATIL ROHIT ANIL
16			20ME074	F190210425	72142706F	SUBODH HANAMANTARAO PATIL
17			20ME075	F190210426	72142707D	PATIL SUHANI SUNIL
18			20ME076	F190210431	72142712L	YASHRAJ RAVINDRA PATIL
19			20ME077	F190210437	72142716C	PAWAR CHAITANAYA SANJAY
20	5	Cost Analysis of Vehicles Hybrid Vehicles	20ME078	F190210438	72142717M	PAWAR CHAITANYA AJAY
21			20ME079	F190210575	72142840B	SUHANI RANJIT PAWAR
22			20ME080	F190210443	72142720M	PAWAR VINIT NITIN
23			20ME081	F190210444	72142721K	EDNEKAR MRUNMAYEE RAVINDR
24			20ME082	F190210449	72142724D	PHADE RUSHI INDRAJIT
25	6	NC / CNC Machines Additive Manufacturing	20ME083	F190210458	72142732E	PRATHMESH SUNIL POKALE
26			20ME084	F190210463	72142737F	RAGHUVANSHI VAIBHAV MUKUND
27			20ME085	F190210465	72142739B	RAJALE CHITRA DNYANDEO
28			20ME086	F190210466	72142740F	RAJEBHOSALE ARYA SURESH
29			20ME087	F190210469	72142743L	RAKSHE HARSHAL GORAKSH
30	7	Clutch & Brake Systems Washine Machine Photocopying Machine	20ME088	F190210472	72142745G	RANE BHARGAV DEVENDRA
31			20ME089	F190210500	72142767H	INDRAJIT MANOJ SALUNKE
32			20ME090	F190210502	72142769D	SALVI NEEL SANTOSH
33			20ME091	F190210503	72142770H	SALVI TANVI YASHWANT
34			20ME092	F190210510	72142777E	SANWARE YASH MANOHAR
35	8	Steering System Vehicle Suspension System	20ME093	F190210560	72142825J	SHUBHAM SHIVAJI SAPKAL
36			20ME094	F190210515	72142782M	SATANE UTKARSH DATTATRAYA
37			20ME095	F190210519	72142786D	SAWANT ATHARVA RAKESH
38			20ME096	F190210521	72142788L	SAWANT PREMKUMAR SANJAY
39			20ME097	F190210544	72142809G	SHINDE DEEPANJALI SANDEEP
40	9	Lathe Machine Mechanisms	20ME098	F190210621	72142884D	VISHNU KARTIKRAJE SHINDE
41			20ME099	F190210546	72142811J	SHINDE PARTH VIJAY
42			20ME100	F190210552	72142817H	SHINDE VITTHAL VIJAY
43			20ME101	F190210554	72142819D	PRASAD BHARAT SHINGARE
44			20ME102	F190210564	72142829M	SODIYA SUSHANK MAHESHKUMA
45	10	Gears Bearings	20ME103	F190210574	72142839J	SUHANA SHAIKH
46			20ME104	F190210576	72142841L	SUKALE RUTIK CHANDRAKANT
47			20ME105	F190210391	72142665E	OMKAR KIRAN SURYAWANSHI
48			20ME106	F190210594	72142858E	THORAT GAURAV DEEPAK
49			20ME107	F190210602	72142866F	TODKAR ADITYA ATUL



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50	11	Power Transmission Elements Limits, Fits & Tolerances Metrology & Quality Control (Gauges)	20ME108	F190210201	72142495D	HINDAVI PRAMOD TODKAR
51			20ME109	F190210021	72142339G	AMEYA TRIPUTE
52			20ME110	F190210605	72142869L	TUPSANDE YASH SADASHIV
53			20ME111	F190210623	72142886L	VISHWAJEET SARKALE
54			20ME112	F190210635	72142898D	WALUNJ TANMAY RAJENDRA
55			20ME113	F190210639	72142902F	WAYAL KSHITIJ NITIN
56			20ME114	F190210646	72142909C	YASH AMOL CHAUDHARI
57			20ME115	F190210657	72142917D	ZALAKE SHIVAM DATTATRAY
58			20ME116	F190210659	72142919L	ZOPE MOHIT JAYANT

*Dr. D.V. Nighot*

Dr. D.V. Nighot  
Name & Signature of HOD

Head

Department of First Year Engineering  
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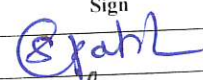

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(U.No. PU / Pw/ Engg / 003 / 1992)  
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FE Project Based Learning (110013) Stage-II Review Evaluation Sheet (AY 2022-23, Term-II)										
Group No.	01	Project Title:	Traffic Congestion in India: Case study from Current Events in Pune.							
Guide Name:	Mr. A.V. Wakchaure		Type of Activity: Project- Model Fabrication/ Techno-social activity/ Product Development/ Software development/App development/ Environment and Sustainability/ Design/ Development of Solutions/Case study/ Survey/ Assignments/if any other specify : _____							
Group Members:	Sr.No	Roll No	Name of Student		Sign					
	1	22CH041	Omkar Rakshe							
	2	22CH043	Sahil Kamdi							
	3	22CH047	Sejal Shah							
	4	22CH058	Vaishnavi Rakade							
	5	22CH059	Abhijeet Vilayate							
6										
Level of Achievement-Project Synopsis/ Proposal Evaluation (Review- II)										
Sr.No	Group Evaluation	Excellent (10-9)	Good (6-8)	Average (≤5)	Individual 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	08	09	08	08	08	08
B	Identify real life problems through rigorous literature survey from societal need	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	08	09	08	08	08	08



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C	Formulation of Objectives and Methodology proposed	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	Objectives of the proposed work are either not identified or not well defined;	08	09	08	08	08	07
D	Proposed suitable solution to contribute society using	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of	Solutions of the proposed work are either not identified or not well defined;	08	09	08	08	08	09
E	Use of technology to demonstrate proposed work in oral & written form	Clear idea about technology used for completion of activity	Incomplete justification to technology used in proposed work	technology used in proposed work are either not identified or not well defined; Incomplete and	08	09	08	08	08	07
F	Develop ability to work as an individual and as a team member	Contribution as a team and as a individual	Complete team work coordination but no individual contribution of all members	Nither team work contribution nor individual contribution	08	09	08	08	08	07
Remarks by Panel Members	1	Need to the rigorous survey related to traffic								
	2									
	3									
	4									
	5									
Panel Members:				Name	Group Score (Max-10)	Sign				
				1 ss pahl	08	 				
				2 Almas Ambreen						
				3						

  
PBL Coordinator



  
Head of Department

  
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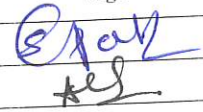

FE Project Based Learning (110013) Stage-II Review Evaluation Sheet (AY 2022-23, Term-II)

Group No.	09	Project Title:	Extraction of perfume from Lemon Grass.							
Guide Name:	Mr. A. V. Wakchaure	Type of Activity:	Project- Model Fabrication/ Techno-social activity/ Product Development/ Software development/App development/ Environment and Sustainability/ Design/ Development of Solutions/Case study/ Survey/ Assignments/if any other specify : Product Development							
Group Members:	Sr.No	Roll No	Name of Student	Sign						
	1	22CH024	Yogeshwar Ingale	8	Ingale					
	2	22CH025	Prathamesh Jadhav	9	Jadhav					
	3	22CH026	Sfurti Kaduskar	9	Sfurti					
	4	22CH028	Siddharth Kingi	9	Kingi					
	5	22CH031	Vaibhav Kurhade	8	Kurhade					
	6	22CH032	Ajinkya Lengare	8	Lengare					
Level of Achievement-Project Synopsis/ Proposal Evaluation (Review- II)										
Sr.No	Group Evaluation	Excellent (10-9)	Good (6-8)	Average (≤5)	Individual 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	08	09	09	09	08	08
B	Identify real life problems through rigorous literature survey from social need	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	08	09	09	09	08	08



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C	Formulation of Objectives and Methodology proposed	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	Objectives of the proposed work are either not identified or not well defined;	08	09	09	09	08	08	
D	Proposed suitable solution to contribute society using	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of	Solutions of the proposed work are either not identified or not well defined;	08	09	09	09	08	08	
E	Use of technology to demonstrate proposed work in oral & written form	Clear idea about technology used for completion of activity	Incomplete justification to technology used in proposed work	technology used in proposed work are either not identified or not well defined; Incomplete and	08	09	09	09	08	08	
F	Develop ability to work as an individual and as a team member	Contribution as a team and as a individual	Complete team work coordination but no individual contribution of all members	Nither team work contribution nor individual contribution	08	09	09	09	08	08	
Remarks by Panel Members	1	Need to add Action plan & detail study about project.									
	2										
	3										
	4										
	5										
Panel Members:				Name	Group Score (Max-10)	Sign					
				1	es pathy	09	 				
				2	Almas Ambreen						
				3							

  
 PBL Coordinator



  
 Head of Department

  
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FE Project Based Learning (110013) Stage-II Review Evaluation Sheet (AY 2022-23, Term-II)

Group No.	03	Project Title:	Solar Distillation							
Guide Name:	M.R. A.V. Wakchore		Type of Activity: Project- Model Fabrication/ Techno-social activity/ Product Development/ Software development/App development/ Environment and Sustainability/ Design/ Development of Solutions/Case study/ Survey/ Assignments/if any other specify : _____							
Group Members:	Sr.No	Roll No	Name of Student		Sign					
	1	22CH054	Krishna. Swami		7					
	2	22CH042	Kalyani. Rokade		7					
	3	22CH053	Samruddhi. Suryavanshi		7					
	4									
	5									
6										
<b>Level of Achievement-Project Synopsis/ Proposal Evaluation (Review- II)</b>										
Sr.No	Group Evaluation	Excellent (10-9)	Good (6-8)	Average (≤5)	Individual 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	07	07	07	07		
B	Identify real life problems through rigorous literature survey from social need	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	07	07	07			



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C	Formulation of Objectives and Methodology proposed	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	Objectives of the proposed work are either not identified or not well defined;	07	07	07			
D	Proposed suitable solution to contribute society using	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of	Solutions of the proposed work are either not identified or not well defined;	07	07	07			
E	Use of technology to demonstrate proposed work in oral & written form	Clear idea about technology used for completion of activity	Incomplete justification to technology used in proposed work	technology used in proposed work are either not identified or not well defined; Incomplete and	07	07	07			
F	Develop ability to work as an individual and as a team member	Contribution as a team and as a individual	Complete team work coordination but no individual contribution of all members	Nither team work contribution nor individual contribution	07	07	07			
Remarks by Panel Members	1									
	2									
	3									
	4									
	5									
Panel Members:			Name	Group Score (Max-10)	Sign					
			1 S S Pab1	07	[Signature]					
			2							
			3							

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PBL Coordinator



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Head of Department

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FE Project Based Learning (110013) Stage-II Review Evaluation Sheet (AY 2022-23, Term-II)

Group No.	04	Project Title:	To solve the problems of fake news/ misconceptions							
Guide Name:	Mr. A. V. Wakchare		Type of Activity: Project- Model Fabrication/ Techno-social activity/ Product Development/ Software development/App development/ Environment and Sustainability/ Design/ Development of Solutions/Case study/ Survey/ Assignments/if any other specify : _____							
Group Members:	Sr.No	Roll No	Name of Student			Sign				
	1	22CH055	Prayansh P. Jalegaonkar							
	2	22CH056	Nihanshu Tambe							
	3	22CH045	Tanhvi Sambre							
	4	22CH050	Prasad Shinde							
	5	22CH046	Rohan Sawant							
6										
Level of Achievement-Project Synopsis/ Proposal Evaluation (Review- II)										
Sr.No	Group Evaluation	Excellent (10-9)	Good (6-8)	Average (≤5)	Individual 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	08	08	08	07	07	07
B	Identify real life problems through rigorous literature survey from social need	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	08	08	08	07	07	07



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C	Formulation of Objectives and Methodology proposed	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	Objectives of the proposed work are either not identified or not well defined;	08	08	08	07	07	07
D	Proposed suitable solution to contribute society using	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of	Solutions of the proposed work are either not identified or not well defined;	08	08	08	07	07	07
E	Use of technology to demonstrate proposed work in oral & written form	Clear idea about technology used for completion of activity	Incomplete justification to technology used in proposed work	technology used in proposed work are either not identified or not well defined; Incomplete and	08	08	08	07	07	07
F	Develop ability to work as an individual and as a team member	Contribution as a team and as a individual	Complete team work coordination but no individual contribution of all members	Nither team work contribution nor individual contribution	08	08	08	07	07	07
Remarks by Panel Members	1									
	2									
	3									
	4									
	5									
Panel Members:			Name	Group Score (Max-10)	Sign					
			1 S S Pab)	08	S Pab)					
			2							
			3							

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PBL Coordinator



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Head of Department

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FE Project Based Learning (110013) Stage-II Review Evaluation Sheet (AY 2022-23, Term-II)

Group No.	05	Project Title:	Food safety & management.							
Guide Name:	A.V. Wakehause.		Type of Activity: Project- Model Fabrication/ Techno-social activity/ Product Development/ Software development/App development/ Environment and Sustainability/ Design/ Development of Solutions/Case study/ Survey/ Assignments/if any other specify : _____							
Group Members:	Sr.No	Roll No	Name of Student		Sign					
	1	22CH048	Mustakim Shaikh AB 7		AB					
	2	22CH049	Sujal Shedge 7		Sujal					
	3	22CH051	Niranjan Subale 7		Niranjan					
	4	<del>22CH054</del>	<del>Krishna Swami</del> 7							
	5	22CH057	Nishant Tayade 7		N.Tayade					
6	22CH060	Jyotiraditya Yerugade 7		Jyotiraditya						
Level of Achievement-Project Synopsis/ Proposal Evaluation (Review- II)										
Sr.No	Group Evaluation	Excellent (10-9)	Good (6-8)	Average (≤5)	Individual 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	07	07	07	07	07	
B	Identify real life problems through rigorous literature survey from social need	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	07	07	07	07	07	



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C	Formulation of Objectives and Methodology proposed	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	Objectives of the proposed work are either not identified or not well defined;	07	07	07	07	07		
D	Proposed suitable solution to contribute society using	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of	Solutions of the proposed work are either not identified or not well defined;	07	07	07	07	07		
E	Use of technology to demonstrate proposed work in oral & written form	Clear idea about technology used for completion of activity	Incomplete justification to technology used in proposed work	technology used in proposed work are either not identified or not well defined; Incomplete and	06	07	07	07	06		
F	Develop ability to work as an individual and as a team member	Contribution as a team and as a individual	Complete team work coordination but no individual contribution of all members	Nither team work contribution nor individual contribution	08	07	07	07	08		
Remarks by Panel Members	1										
	2										
	3										
	4										
	5										
Panel Members:				Name	Group Score (Max-10)	Sign					
				1	SS Pabhi	07	[Signature]				
				2							
				3							

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PBL Coordinator



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Head of Department

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FE Project Based Learning (110013) Stage-II Review Evaluation Sheet (AY 2022-23, Term-II)										
Group No.	06	Project Title:	Preparing natural cleaning liquid from Saponin.							
Guide Name:	A.W. Patil A.V. Makchavare.		Type of Activity: Project- Model Fabrication/ Techno-social activity/ Product Development/ Software development/App development/ Environment and Sustainability/ Design/ Development of Solutions/Case study/ Survey/ Assignments/if any other specify : _____							
Group Members:	Sr.No	Roll No	Name of Student		Sign					
	1	Vidhi N Patil 22CH038	Vidhi Nitin Patil		9					
	2	Shruti K Kothawade 22CH030	Shruti Kishor Kothawade		9					
	3	Yash K Rajole 22CH040	Yash Kailas Rajole		9					
	4	Jayesh B Morathe 22CH034	Jayesh Baburao morathe		8					
	5	Shubham H Gore 22CH022	Shubham Harumat Gore		9					
	6	Kartik T mothe 22CH037	Kartik Tukaram mothe		8					
Level of Achievement-Project Synopsis/ Proposal Evaluation (Review- II)										
Sr.No	Group Evaluation	Excellent (10-9)	Good (6-8)	Average ( $\leq 5$ )	Individual 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	09	09	09	08	09	08
B	Identify real life problems through rigorous literature survey from social need	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	09	09	09	08	09	08



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C	Formulation of Objectives and Methodology proposed	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	Objectives of the proposed work are either not identified or not well defined;	09	09	09	08	09	08
D	Proposed suitable solution to contribute society using	Clear idea about solutions, modern tools to be used to be expected after completion of activity	Incomplete justification to the solutions proposed, lack of	Solutions of the proposed work are either not identified or not well defined;	09	09	09	08	09	08
E	Use of technology to demonstrate proposed work in oral & written form	Clear idea about technology used for completion of activity	Incomplete justification to technology used in proposed work	technology used in proposed work are either not identified or not well defined; Incomplete and	09	09	09	08	09	08
F	Develop ability to work as an individual and as a team member	Contribution as a team and as a individual	Complete team work coordination but no individual contribution of all members	Nither team work contribution nor individual contribution	09	09	09	08	09	08
Remarks by Panel Members	1									
	2									
	3									
	4									
	5									
Panel Members:			Name	Group Score (Max-10)	Sign					
			1	SS Pabji	09	[Signature]				
			2							
			3							

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PBL Coordinator



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Head of Department

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