2022 - 23

COMPENDIUM PROJECT BASED OREINTATION

EVEN SEMESTER IV

BMSINSTITUTEOFTECHNOLOGYANDMANAGEMENT

Avalahalli,DoddaballapurMainRoad,

Bengaluru–560064

PBL COMPENDIUM

2022-23

EVEN SEMESTER (IV)

INDEX SHEET

PBL COMMITTEE MEMBERS

Sl.NO	Name	Department
1	Dr.Mohanbabu G N	Principal
2	Dr. Anil G N	Vice-Principal
3	Dr. K.M.Sathish Kumar	Dean-Academics
4	Dr. Anitha V R	PBL- Chief Coordinator, Institute Level
5	Dr. Radhika K R	PBL-Coordinator, Institute Level
6	Dr.Prashanth A	PBL-Coordinator, EEE
7	Mr. Sundaresh	PBL-Coordinator, ME
8	Dr.Anitha V R	PBL-Coordinator, ECE
9	Mr. Shivarudraiah B	PBL-Coordinator, ECE
10	Mrs. Saritha I G	PBL-Coordinator, ETE
11	Mrs.Vishakha Yadav	PBL-Coordinator, CSE
12	Dr. Manoj H M	PBL-Coordinator, CSE
13	Dr.Drakshaveni	PBL-Coordinator, ISE
14	Dr.Anil kumar	PBL-Coordinator, ISE
15	Mrs. Kalaivani	PBL-Coordinator, ISE
16	Mr. Deepak	PBL-Coordinator, CIV
17	Dr.Anupama H S	PBL-Coordinator, AI&ML

TOTAL NUMBER OF PBL PROJECTS

Department	No. of projects in IV semester	
CSE	59	
ISE	42	
ECE	49	
ME	16	**TOTAL-228**
CV	13	
EEE	17	
ETE	14	
AI & ML	18	

RUBRICS FOR PBL EVALUATION

I PHASE EVALUATION

Problem Formulation and Synopsis	10M	
Objectives and Methodology	10M	**Total: 50Marks**
Presentation Skills	20M	
Viva	10M	

II PHASE EVALUATION

Implementation	20 Marks	
Presentation	20 Marks	**Total 50 Marks**
Viva	10 Marks	

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

AND

MACHINE LEARNING

PBL Report

The Open Day was conducted on 05-09-2023 in Amphitheatre Academic Block, BMSIT&M. All 4th semester students presented their innovative ideas. The projects were mainly focussing on the domain Networking, Machine Learning and Big Data Analytics, Image Processing. Total of 08 projects were exhibited on 04-09-2023 and later 4 projects were shortlisted, and those four projects were evaluated on Open Day.

JUDGES FOR THE EVALUATION

1. **Mr. MAJID YAKUB SHAIKH. Technical Director, Zetacoding Innovative Solution**

2. **Dr. Bharathi M A, Professor, Dept. of AI&ML, BMSIT&M**

3. SHORTLISTED PROJECTS FOR OPEN DAY: 05-09-2023

Sl No	Group	Name	USN	Section	Title of the PBL
1	PBL Batch 03	Nidhi Umashankar	1BY21AI036	4th A	FOOT PHYSIOLOGY ANALYSIS FOR DISORDER PREDICTION AND DISPLAY OF HEALTH INDICATORS
		Rahul Unnikrishnan	1BY21AI042	4th A	
		Vaibhav MK	1BY21AI058	4th A	
2	PBL Batch 07	Aakash Nagamalli	1BY21AI001	4th A	SECOND STORY
		Aryan Aiyappa	1BY21AI010	4th A	
		Anmol A	1BY21AI006	4th A	
		Vismai A	1BY21AI066	4th A	
3	PBL Batch 09	Aayush Prasad	1BY21AI002	4th A	SMART ATTENDANCE MANAGEMENT SYSTEM
		Anubhav Anand	1BY21AI007	4th A	
		Shekhar Suman	1BY21AI050	4th A	
		Harshit Jain	1BY21AI021	4th A	
4	PBL Batch 12	Abhishek Aradhya B U	1BY21AI003	4th A	AQUAXPLORER: AUV ENDEAVOUR
		Nithin Parimi	1BY21AI037	4th A	
		Prajwal Reddy J	1BY21AI041	4th A	
		Yogesh A	1BY21AI062	4th A	

PBL PRIZE WINNERS List

Sl No	Group	Name	USN	Section	Title of the PBL	Guide	
1	AI-1	Aayush Prasad	1BY21AI002	4th-A	Smart Attendance Management System	Dr. Chandrashekhar B N	1st Prize
		Anubhav Anand	1BY21AI007	4th-A			
		Shekhar Suman	1BY21AI050	4th-A			
		Harshit Jain	1BY21AI021	4th-A			
2	AI-2	Nidhi Umashankar	1BY21AI036	4th-A	Foot physiology analysis for disorder prediction and display of health indicators	Dr. Rajesh I S	2nd Prize
		Rahul Unnikrishnan	1BY21AI042	4th-A			
		Vaibhav MK	1BY21AI058	4th-A			

Program Outcomes Mapped and justification

PBL projects are mapped to the following PO's

PO's Mapped:

PO1, PO2, PO3, PO4: These POs are mapped because, Problem statement needs to be analysed, designed and apply mathematical formulations for making the prototype to work.

PO5, PO6: All projects have used different modern tools and few of them are of societal concerns.

PO9, PO10, PO12: All the batches have worked in teams with good communication. The concepts that the projects have done will be of lifelong learning.

Photos/ Screenshots

DEPARTMENTOF COMPUTER SCIENCE & ENGINEERING

PBL Report

Project exhibition was organized on 5th September 2023 for 4th semester students at institute level and evaluation of projects were carried out by experts. Experts were academician **Dr. Hemamalini B H** , Associate Professor, Dept. of CSE and industry expert **Mr. Harish C N**, IBM India Pvt Ltd, Bangalore. Internal PBL Final reviews was held on 4/9/2023 from internal expert evaluation team and selected projects were informed to present it on OPEN DAY. As per Calendar of Events synopsis submission was held on 4/6/2023, review -1 was held on 4/07/2023 and review -2 was held on 4/8/2023. Winners of the PBL presentation is as follows.

Sl No	Section	Batch Number	PBL TITLE	Team Members	USN's	Prize
1	IV A	A7	Route mapping (Dijkstra algorithm)	Jahnavi Patil	1BY21CS071	FIRST
				Ananya Dassi	1BY21CS018	
				Janhavi Akalwadi	1BY22CS401	
				Kishor C	1BY22CS404	
2	IV A	A15	Stock Analysis	Abhishek Kumar	1BY21CS003	SECOND
				Adbhut Shukla	1BY21CS005	
				Anish Raju	1BY21CS020	
				Hemaang Sood	1BY21CS067	
3	IV B	B13	Image segmentationfor medical diagnosis using deep learning	Pranav srinivas	1BY21CS127	FIRST
				Pratham Gowda	1BY21CS131	
				Pratham P Punneshetty	1BY21CS132	
				Niveditha Nayana	1BY21CS115	
4	IV B	B2	Online Doctor Consultation	Keerthi Y	1BY21CS078	SECOND
				Nikitha Kulkarni	1BY21CS111	
				Ashritha P G	1BY21CS118	
				P SUBHASHINI	1BY21CS119	
5	IV C	C19	Blockchain Using Facial Recognition	Sharan K	1BY21CS170	FIRST
				Vikas Swain	1BY21CS210	
				Tanushree Saxena	1BY21CS201	
				Ruth Rani V	1BY21CS156	
6	IV C	C10	Facial recognition security system for visually impaired people	Sarbashree Kaspal	1BY21CS167	SECOND
				Sidharth N	1BY21CS183	
				Sujit Sigamani	1BY21CS189	
				Swaroop A	1BY21CS194	

Photos/ Screenshots

Inauguration of OPEN DAY, Principal, Dean(s), all department's HODs and Industryexperts were present	Projects were reviewed by the industry expert

Group photo was taken at the end of the Open day with all students along with the industryexpert and internal experts.

Program Outcomes Mapped and justification

PBL projects are mapped to the following PO's

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	✓	✓	✓	✓	✓			✓	✓	✓	✓

PBL Coordinator   **HOD-CSE**

DEPARTMENT OF CIVIL ENGINEERING

Number of student projects evaluated during Even semester 2022-23:

Department	No. of projects in IV semester
CV	9

Report:

Department of CIVIL ENGINEERING, BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT, Avalahalli, Yelahanka, Bengaluru organized Open Day on 05thSeptember 2023 to exhibit the PBL project work carried out by IV semester CV students. The projects exhibited the student's ability to apply their learning to solve the real-world problems.

This semester around 9 PBL batches chose the Civil Engineering Problems Based Projects and Innovative Solutions for the same through technical and smart methods. These projects were mentored by the assigned faculty members and were evaluated by internal committee on various rubrics. The shortlisted projects were demonstrated on Open Day and were evaluated by the external Jury.

JUDGES FOR THE EVALUATION

The details of the external evaluator for PBL Open Day is as follows:

Er. Ravi J,
DIRECTOR,
SHIKHAR BUILDERS AND CONTRACTORS,
BENGALURU- 560 021

PRIZE WINNERS LIST

The following are the winners of PBL projects based on External Evaluation conducted on OPEN DAY on 05.09.2023:

PBL- 4th Semester- 2021-Batch- CV

Winners			
Winners	STUDENTS NAME	USN No.	TOPIC
1st PLACE	V PAVAN	1BY21CV027	Structural Health Monitoring System
	GOKUL SHARMA	1BY21CV005	
	SAURABH PRASAD	1BY21CV020	
	SHINOLA M F	1BY21CV022	
1stPLACE	PRAJWAL V DEV	1BY21CV015	BAGUSK – A composite wood material
	NISHANTH N	1BY21CV013	
	MANOJ G	1BY21CV009	

	YASHASH GOWDA A S	1BY21CV029	
2nd PLACE	Y D DARSHAN	1BY21CV028	
	POORNA CHANDRU S	1BY21CV014	Smart Bridge
	S N PAWAN KUMAR UPPAR	1BY21CV018	
2ndPLACE	MOHAN RAJ S	1BY21CV012	Highway Electric Battery
	MANISH S	1BY21CV009	
	MAINA N	1BY21CV008	
	TANUJA	1BY21CV026	

Photos/ Screenshots of PBL Open Day 13-01-2023

Program Outcomes Mapped and justification

PBL projects are mapped to the following PO's

Quality of the PBL project is measured in terms of the consideration to factors including processes related to project identification, allotment, continuous monitoring, evaluation including demonstration of working prototypes and enhancing the relevance of projects. A senior faculty member is assigned the responsibility as PBL coordinator, who handles all the activities related to the student project work such as grouping, planning, scheduling and execution.

Justifications of POs mapping:

	Processes	Work flow	POs mapped
1	Identification of PBL projects and allocation methodology to Faculty Members	1. Formation of groups 2. Assignment of Project Guide 3. Identification of Project 4. Finalization of Project Title and Synopsis	PO2 (Problem Analysis)
2	Types and relevance of the PBL projects and their contribution towards attainment of POs	Categorization of project according to relevance	PO6 (Environment and Sustainability)
3	Process for monitoring and evaluation	1. Project Progress Presentations carried out in a semester (Phase 1 and Phase 2) 2. Grading of Project based on presentation, Implementation and Report rubrics	PO10 (Communication Skills) PO11 (Project Management and Finance) PO8 (Ethics)
4	Process to assess individual and team performance	1. Problem Definition 2. Concept 3. Team Work 4. Organization 5. Knowledge and 6. Effectiveness of Delivery	PO9 (Individual and Team Work)
5	Quality of completed PBL projects/ working prototypes/Awards received by projects etc.	1. Project demonstration for the working 2. prototype Report evaluation	PO4 (Investigate Problem) PO5 (Engineering Tool Usage)
6	Evidences of Papers Published/Awards received by projects.	1. List of Possible Publications 2. List of Possible Patents 3. List of Projects awarded in (Open Day- Competition)	PO8 (Ethics) PO9 (Individual and Team Work) PO10 (Communication Skills) PO12 (Lifelong Learning)

PBL Coordinators   HoD Civil Engineering

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PBL REPORT

Department of Electronics and Communication Engineering, BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT, Avalahalli, Yelahanka, Bengaluru organized a BMSIT open day on 05th September 2023 in physical mode and students of IV semester exhibited their projects. The projects exhibited the student's ability to apply their learning to solve the real world problems.

This semester around 49 PBL batches participated in PBL exhibition and 09 Projects were selected for second round of evaluation. These projects were presented on open day and evaluated by panel members consisting of external (from industry) and internal members based on various rubrics.

JUDGE FOR THE EVALUATION

1) **Mr. Vijay Kumar**, Associate Consultant, TCS Pioneer Block ITPB Whitefield Bangalore, Karnataka.
E-Mail: vijay.k37@tcs.com and Ph.No: +91 8105070525

PRIZE WINNERS LIST

IV Semester

Batch No.	Name	USN	Title	Guide
First Prize				
SG10	Adithya R Hiremath	1BY21EC004	Under water autonomousvehicle-UAV with Wirelesscommunication system	Dr. Anil Kumar D
	Anu C Patil	1BY21EC015		
	Basavaprabhu S H	1BY21EC027		
	G P Varshini	1BY21EC045		
SG7	Rachana M	1BY21EC117	Smart Car System	Prof. Mamatha K R
	Monisha M S	1BY21EC087		
	Pragathi G	1BY21EC106		
	Sirisati Yashwanth	1BY21EC148		
SG42	Shashank Chandrashekhar P	1BY21EC141	WEVOC- Wireless EV Charging	Dr. Deepa N Reddy
	Sourabh K H	1BY21EC150		
	Spandan S Salimath	1BY21EC151		
	Suhas B S	1BY21EC154		
Second Prize				
SG16	Chetan V	1BY21EC033	GASTRAX	Dr. Saneesh Cleatus T
	Eeshaan Kumar	1BY21EC043		
	Ankit Ananth Kini	1BY21EC013		
	Harsha S	1BY21EC052		
SG19	MD Farhan Ahmed	1BY21EC85	Brain Tumor Detection using MATLAB GUI	Dr. Saneesh Cleatus T
	Mridula NS	1BY21EC090		
	Namitha L	1BY21EC092		
	Punitha R	1BY21EC112		
SG4	K C Sangeetha	1BY22EC405	Segregation of waste and monitoring	Dr. Anil Kumar D
	Rachana P B	1BY22EC409		
	Sukruth K R	1BY22EC414		
	Vinayak katwa	1BY22EC417		

Program Outcomes Mapped and justification

PBL projects are mapped to PO1, PO2, PO3, PO6, PO9, PO10, PO11, P012.

PBL Coordinator   HoD (ECE)

DEPARTMENT OF ELECTRICAL
AND
ELECTRONICS ENGINEERING

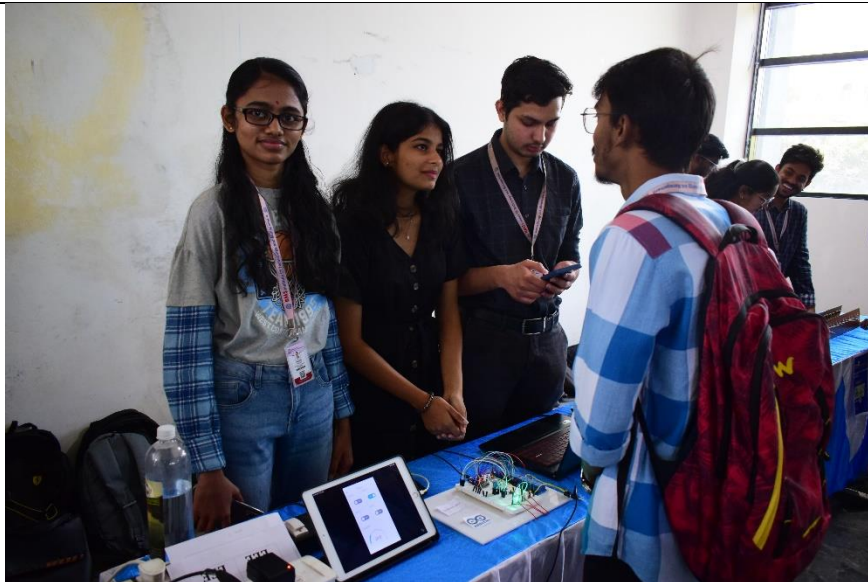# Open Day at BMSIT&M

E&EE Department organized the Open Day at BMSIT&M on 4th and 5th of September, 2023. The PBL Projects were evaluated on 4th September by the BMSIT&M internal judges and selected 3 entries from the 2nd year, were further evaluated by the external judges on 5th September, 2023.

Mr. Murali Krishna, Dy.Manager/Power Electronics, BHEL was the invited external judge for the Open Day. The following are the winners of the PBL Project Exhibition cum Competition.
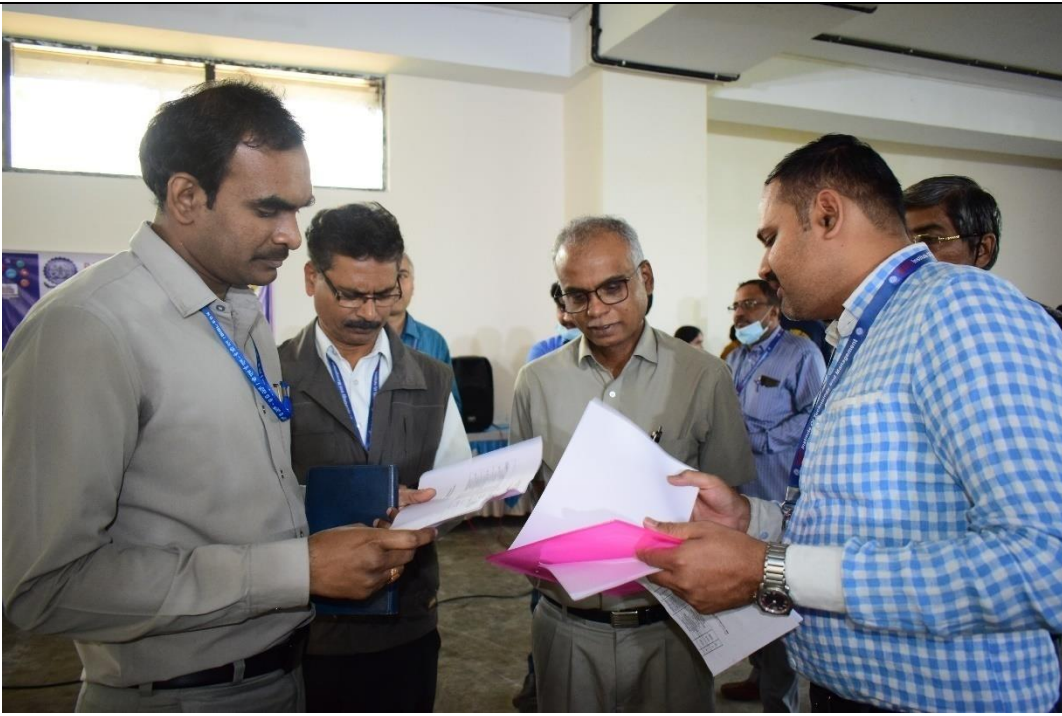
Batch	4th Sem				
	Name	USN	Project Title	Guide	Winners
B6	R RITHVIK	1BY21EE028	Low Cost Automated Camera Slider	MANJULA B K	First Place
	SIDDHARTH DEVARAJ	1BY21EE042			
	SHIREESH S SHENOY	1BY21EE039			
	ANJAN KUMAR H R	1BY21EE005			
B9	MOHAMMED NAVEED	1BY21EE020	Home Automation using Aurdino	MANJUNATH BABU P	Second Place
	MOON SHUKLA	1BY21EE021			
	ALOK KUMAR	1BY21EE003			
	SNEHA SHAETTY	1BY21EE043			
	MIDHYA DEVASIA	1BY20EE027			
	VINAY JALIHAL	1BY20EE054			
	NISARGA G R	1BY20EE029			

The evaluation was based on: the following points: Completion of the set objectives : **10 Marks,** Societal relevance : **10 Marks,** Presentation of the Project: **10 Marks,** Viva Voce : **10 Marks,** Report : **10 Marks**

First round of evaluation was held on 12th January at 11.00 am. The top 3 projects from each of 3rd and 5th Semester competed for a cash prize of 5000 Rs. on 13th January, 2023 at the Lab Block. Few glimpses of the event are as follows:

HoD, EEE

DEPARTMENT OF ELECTRONICS

AND

TELECOMMUNICATION ENGINEERING

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

OPEN DAY REPORT-2023

Department	No. of projects in IV semester
ETE	16

Project based Learning is incorporated for the subjects which lack the blended mode of implementation through the Curriculum prescribed by the University.

Subsequently, an analysis was carried out based on the curricular course components to mitigate the gaps. Students were asked to form a team of 2-4 members and pursue the real-world problems as far as possible to gain insight of projects implementation.

There were 16 Teams from the IV Semester who have participated in the review and evaluation process. All the faculty members have participated in mentoring the Teams and Internal evaluation process. Out of 16 teams, 5 teams were selected for open day which was held on 5.9.23 at 10 am in amphitheatre. All the teams presented well.

The Final Evaluation was carried out by the External Judge working in Industry.

Open Day Prize winners

List of PBL Winners					
Semester	Prize	USN	Name of the Student	Title of the Project	Guide
IV	I	1BY22ET400	BHUVAN B K	Agricultural modernization	Dr Sumathi M S
		1BY22ET402	MANOJ S		
		1BY22ET408	RAKSHITHA P		
		1BY22ET409	REKHA G		
	II	1BY22ET405	N PUNITH	Vehicle monitoring Systems	Dr. Raju Hajare
		1BY22ET406	PALLAVIK PRAKASH		
		1BY22ET407	PRITHVI RAJ S		
		1BY22ET410	RISHI KIRAN P		

1. Mrs. Shravani P – Assistant Manager(R&D), ITI ltd

Photos/
Screenshots

Program Outcomes Mapped and justification

PBL projects are mapped to the following PO's

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	✓	✓	✓	✓	✓			✓	✓	✓	✓

Project Coordinator   **HOD,ETE**
(Prof. Saritha I G)   **(Dr.Mallikarjuna Gowda C P)**

DEPARTMENT OF

MECHANICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering, BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT, Avalahalli, Yelahanka, Bengaluru organized a PBL Project review on 4th and 5th September2023 to exhibit the project work carried out by the students of IV semester. These projects showcase the student's ability to apply their learning to solve the real-world probles.

In this semester, IV semester students were grouped into 16 PBL batches (four students in each batch), carried out different projects. Most of the projects involves design and fabrication work and few were simulation or analysis based. All these projects were evaluated by internal committee on Monday, 4thSeptember 2023 based on the various rubrics in preliminary round and after critical evaluation 4 best projects were selected for final round for OPEN DAY – Exhibition on Tuesday, 5thSeptember 2023.

The details are as follows:

Semester: IV

In the final round held OPEN DAY on Tuesday, 5thSeptember 2023, Mr. SANJEEV,

Sl No	Group	Name	USN	Title of the PBL	Guide	Evaluation Marks
1	B3	HARISH M	1BY22ME405	ARC WELDING SALT WATER	Dr. G L Ananthakrishna	49
		AKSHAY KUMAR K H	1BY22ME400			
		MANIKANTA S P	1BY22ME411			
		MACHAHALLI BASAVARAJ	1BY22ME410			
2	B7	ADITYA KASHYAP	1BY21ME005	LINE TRACKING ROBOT	Prof. Sundaresh S	49
		JOTHISHWAR KANNAN	1BY21ME016			
		THEJASWI K SAGRI	1BY21ME037			
		TEJA B K	1BY21ME036			
3	B10	KOWSHIK B P	1BY22ME408	SECONDARY POWER GENERATION USING DYNAMO	Prof. Nithya Poornima	49
		MUKTHA A	1BY22ME414			
		TARUN NAIDU M S	1BY22ME424			
		VASANTH KUMAR R	1BY22ME426			
4	B13	CHANDRU S	1BY22ME402	A TESLA COIL APPLICATION	Dr. Y J Jagadeesh	49
		MANOHAR B	1BY22ME413			
		PRERITH B	1BY22ME417			
		RIZWAN M R	1BY22ME418			

TENNECO INDIA PVT LTD Bengaluru as External Industry expert and Dr. RAVICHANDRA K R, Assistant Professor as Internal Academic member critically

evaluated these projects based on the societal relevance, completion of the set objectives, presentation and queries and finally rated the projects based on the marks scored. Top two projects from each semester were awarded with a cash prize.The details of the award-winning projects are as follows:

PRIZE WINNERS List

SI NO.	Name of the student	USN	Title of the Project	Name of the Guide	Position
1	KOWSHIK B P	1BY22ME408	SECONDARY POWER GENERATION USING DYNAMO	Prof. Nithya Poornima	I PRIZE
	MUKTHA A	1BY22ME414			
	TARUN NAIDU M S	1BY22ME424			
	VASANTH KUMAR R	1BY22ME426			
2.	HARISH M	1BY22ME405	ARC WELDING USING SALT WATER	Dr. G L Ananthakrishna	II PRIZE
	AKSHAY KUMAR K H	1BY22ME400			
	MANIKANTA S P	1BY22ME411			
	MACHAHALLI BASAVARAJ	1BY22ME410			

Glimpses of OPEN DAY – Project Exhibition

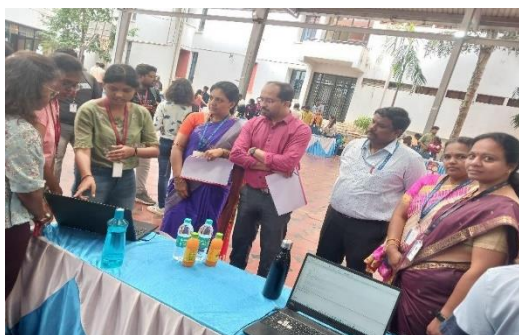# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

OPEN DAY   REPORT

Date: 6/9/2023

Project exhibition was organized on 5th September 2023 for 4th sem students at institute level andevaluation of projects were carried out by experts. Experts were academicia and industry **Dr. Usha B A** , Professor, Dept. of ISE and industry expert Mr.Praveen Bangalore. Internal PBL Final reviews was held on 4/9/2023 from internal expert evaluation team and selected projects were informed for presentation on OPEN DAY. As per Calendar of Events synopsis submissionwas held on 10/6/2023, review -1 was held on 4/07/2023 and review -2 was held on 4/8/2023.

Sl. No	Group	Name	USB	Title	sec	Result
1	A6	Amulya B N	1BY21IS018	Crime Reporting AndPrioritizing Software	A	1st Place
2		Eash Swain	1BY21IS046			
3		Gayathri C	1BY21IS049			
4		Jovita Mariam V	1BY21IS058			
5	A16	Amith Vikram Rajaram	1BY21IS017	Electronic Patient report	A	2nd prize
6		Aditya V P	1BY21IS012			
7		Aayush Tiwary	1BY21IS003			
8		Aditi	1BY21IS009			
9	B13	Lisha Sri H	1BY21IS076	Bluetooth Controlled IoTBased Car Safety System	B	1st place
10		M Madhuri	1BY21IS077			
11		Pravalika NS	1BY21IS116			
12		Priyanka S	1BY21IS119			
13	B3	Pragati Bairagi	1BY21IS107	Sustainable Energy	B	2nd

14		Tanisha Mathur	1BY21IS205	fromGym Equipment's		
15		Lavanya K	1BY21IS072			
16		Yugai kishore	1BY21IS206			
17	C6	Pradeep TG	1BY21IS184	Physio pop-Body motion analysis using pase detectionalgorithm	C	1st
18		Vinod ReddyP	1BY21IS192			
19		Sudarshan S	1BY21IS169			
20		Shreyas N Reddy	1BY21IS157			
21		SHREYAS A YADAV	1BY22IS155			
22		SHREYA M J	1BY21IS154			
23		SHRESTA NAVEEN	1BY21IS153			

4th sem students giving Demo of their project for Internal ,external experts for evaluation ofprojects	Principal, HOD for OPEN day

HOD of ISE

2022-23

COMPENDIUM PROJECT BASED OREINTATION

EVEN SEMESTER VI

BMSINSTITUTEOFTECHNOLOGYANDMANAGEMENT

Avalahalli,DoddaballapurMainRoad,

Bengaluru–560064

PBL COMPENDIUM

2022-23

EVEN SEMESTER (VI)

PBL COMMITTEE MEMBERS

Sl.NO	Name	Department
1	Dr.Mohanbabu G N	Principal
2	Dr. Anil G N	Vice-Principal
3	Dr. K.M.Sathish Kumar	Dean-Academics
4	Dr. Anitha V R	PBL- Chief Coordinator, Institute Level
5	Dr. Radhika K R	PBL-Coordinator, Institute Level
6	Dr.Prashanth A	PBL-Coordinator, EEE
7	Mr. Sundaresh	PBL-Coordinator, ME
8	Dr.Anitha V R	PBL-Coordinator, ECE
9	Mr. Shivarudraiah B	PBL-Coordinator, ECE
10	Mrs. Saritha I G	PBL-Coordinator, ETE
11	Mrs.Vishakha Yadav	PBL-Coordinator, CSE
12	Dr. Manoj H M	PBL-Coordinator, CSE
13	Dr.Drakshaveni	PBL-Coordinator, ISE
14	Dr.Anil kumar	PBL-Coordinator, ISE
15	Mrs. Kalaivani	PBL-Coordinator, ISE
16	Mr. Deepak	PBL-Coordinator, CIV
17	Dr.Anupama H S	PBL-Coordinator, AI&ML

TOTAL NUMBER OF PBL PROJECTS

Department	No. of projects in VI semester	
CSE	63	
ISE	60	
ECE	53	
ME	15	**TOTAL-248**
CV	13	
EEE	14	
ETE	13	
AI & ML	17	

RUBRICS FOR PBL EVALUATION

I PHASE EVALUATION

Problem Formulation and Synopsis	10M	
Objectives and Methodology	10M	**Total: 50Marks**
Presentation Skills	20M	
Viva	10M	

II PHASE EVALUATION

Implementation	20 Marks	
Presentation	20 Marks	**Total 50 Marks**
Viva	10 Marks	

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

AND

MACHINE LEARNING

PBL Report

The open Day was conducted on 08.07.2023. All 6th semester students presented their innovative ideas. The projects were mainly focusing on the domains Artificial Intelligence, Machine Learning, Data Analytics, Block chain, Database management system etc. Total of 17 projects were exhibited on 7.7.2022 and later 4 projects were shortlisted out of 17. Those 4 projects were evaluated on 08.07.2023.

JUDGES FOR THE EVALUATION

1. **Mr. Kaushik B, Infrastructure Engineer (IT), Lowes services India Pvt.Ltd**

2. **Dr. Niranjan Murthi M, Assistant Professor, Dept. of AI&ML, BMSIT&M**

3. SHORTLISTED PROJECTS FOR OPEN DAY: 08-07-2023

Sl No	Group	Name	USN	Title of the PBL	Guide
1	AI-1	A S Adithiyaa	1BY20AI001	MAZE SOLVER USING REINFORCEMENT LEARNING	Dr. Vishwa Kiran S
		RavooruArpitHa	1BY20AI039		
		Sakshi Sunil Neelgund	1BY20AI043		
		Vandana Kumar Swamy	1BY20AI062		
2	AI-2	Aravind Suresh	1BY20AI009	Data cleaner for Non-Image Datasets	Dr. Rajesh I S
		M S Kaushik	1BY20AI024		
		Manish A S	1BY20AI027		
		Sandeep ArockiaSamraj X	1BY20AI044		
3	AI-3	Abhishek S T	1BY20AI003	Sales prediction and fraud detection using machine learning techniques	Dr. Pradeep K R
		Abhishek Amar	1BY20AI002		
		G Rahul Singh	1BY20AI014		
		N Sahana	1BY20AI029		
4	AI-4	Nikita Ravi	1BY20AI033	Subject Answer Evaluation System - AutoGrade	Dr. Bharati Malakreddy A

PBL PRIZE WINNERS List

Sl No	Group	Name	USN	Title of the PBL	Guide	
1	AI-1	A S Adithiyaa	1BY20AI001	MAZE SOLVER USING REINFORCEMENT LEARNING	Dr. Vishwa Kiran S	1st Prize
		RavooruArpitHa	1BY20AI039			
		Sakshi Sunil Neelgund	1BY20AI043			
		Vandana Kumar Swamy	1BY20AI062			
2	AI-2	Aravind Suresh	1BY20AI009	Data cleaner for Non-Image Datasets	Dr. Rajesh I S	2nd Prize
		M S Kaushik	1BY20AI024			
		Manish A S	1BY20AI027			
		Sandeep ArockiaSamraj X	1BY20AI044			

Program Outcomes Mapped and justification

PBL projects are mapped to the following PO's

PO's Mapped:

- PO1, PO2, PO3, PO4: These PO's are mapped because, Problem statement needs to be analyzed, designed and apply mathematical formulations for making the prototype to work.
- PO5, PO6: All projects have used different modern tools and few of them are societal concerns.
- PO9, PO10, PO12: All the batches have worked in teams with good communication. The concepts that the projects have done will be of lifelong learning.

Photos/ Screenshots

DEPARTMENTOF COMPUTER SCIENCE & ENGINEERING

PBL Report

Project based Learning is incorporated for the subjects which lack the blended mode of implementation through the Curriculum prescribed by the University.

Subsequently, an analysis was carried out based on the curricular course components to mitigate the gaps. It was decided to execute the PBL for the following subjects:

Students were asked to form a team of 2-4 members and pursue the real world problems as far as possible to gain insight of projects implementation.

There were 54 Teams from the III semester and 60 Teams from the V Semester who have participated in the review and evaluation process. All the faculty members have participated in mentoring the Teams and Internal evaluation process.
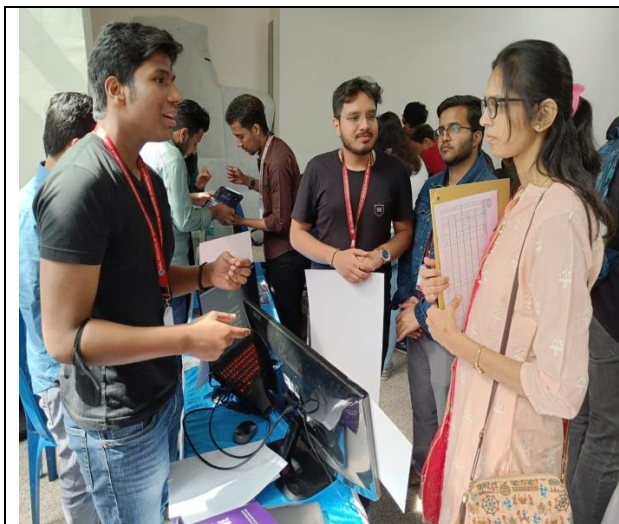
The Final Evaluation was carried out by the External Judges.

JUDGES FOR THE EVALUATION

1. Mrs.Manasi Shah – Lead Pentester –Fidelity Investments
2. Mr. Manjunatha S J -
3. Mr. Jagadeesha T H M -

Photos/ Screenshots

Program Outcomes Mapped and justification

PBL projects are mapped to the following PO's

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	✓	✓	✓	✓				✓	✓	✓	✓

DEPARTMENT OF CIVIL ENGINEERING

Number of student projects evaluated during Odd semester 2022-23:

Department	No. of projects in III semester	No. of projects in Vsemester	Total Department wise
CV	7	13	20

Report:

Department of CIVIL ENGINEERING, BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT, Avalahalli, Yelahanka, Bengaluru organized Open Day on 13th Jan 2023 to exhibit the PBL project work carried out by the students of the III and V semester students. The projects exhibited the student's ability to apply their learning to solve the real-world problems. This semester around 20 PBL batches chose the Civil Engineering Problems Based Projects and Innovative Solutions for the same through technical and smart methods. These projects were mentored by the assigned faculty members and were evaluated by internal committee on various rubrics. The shortlisted projects were demonstrated on Open Day and were evaluated by the external Jury.

JUDGES FOR THE EVALUATION

The details of the external evaluator for PBL Open Day is as follows:

Er. Ravi J,
DIRECTOR,
SHIKHAR BUILDERS AND CONTRACTORS,
BENGALURU- 560 021

PRIZE WINNERS LIST

The following are the winners of PBL projects based on External Evaluation conducted on OPEN DAY on 13.01.2023:

PBL- 5th Semester- 2020-Batch- CV

Open Day (13.01.2023)		Winners		
PBL- 5th Semester- 2020-Batch- CV				
Winners	MENTORS	STUDENTS NAME	USN No.	TOPIC
1ST PLACE	Dr Marsh M Bandi	Sahas Sinha Reddy	1BY20CV006	Connected Citi
		Satwik Reddy	1BY20CV015	
		Praneeth Reddy	1BY20CV02	

		5		
	KapuSatheesh Reddy	1BY20CV020		
2ND PLACE Mrs Archana K	Supritha A R	1BY20CV037	Design of piezoelectric staircase
	Sheethal L	1BY20CV035	
	Ankitha R	1BY20CV002	
	Sparsha K	1BY20CV036	
2ND PLACE Mr Vinod B R	Boomika K V	1BY20CV003	Smart detection of overflow of Sewage water in Manhole
	LekhaRamanan	1BY20CV021	
	AthishJaikumar	1BY20CV005	
	J Akshit Jain	1BY20CV019	

PBL- 3RD Semester- 2021-Batch- CV

Open Day (13.01.2023)		**Winners**		
PBL- 3RD Semester- 2021-Batch- CV				
Winners	**MENTORS**	**STUDENTS NAME**	**USN No.**	**TOPIC**
1ST PLACE	Dr. ATHIYAMAAN V	Gokul Sharma	1BY21CV005	Structural health monitoring system using smart sensors
		Saurabh Prasad	1BY21CV020	
		Shinola M F	1BY21CV022	
		V Pavan	1BY21CV027	
2ND PLACE	Dr. ANUP EKBOTE G	Prajwal	1BY21CV015	Bagasse ash based particle boards
		Nishant	1BY21CV013	
		Manoj	1BY21CV010	
		Yashash	1BY21CV029	
2ND PLACE	Dr VIBHA V	Suhas N	1BY21CV024	Modular building units using polymeric waste
		Shashank	1BY21CV021	
		Anjusha	1BY21CV003	
		Akshaykumar	1BY21CV002	

Program Outcomes Mapped and justification

PBL projects are mapped to the following PO's

Quality of the PBL project is measured in terms of the consideration to factors including processes related to project identification, allotment, continuous monitoring, evaluation including demonstration of working prototypes and enhancing the relevance of projects. A senior faculty member is assigned the responsibility as PBL coordinator, who handles all the activities related to the student project work such as grouping, planning, scheduling and execution.

Justifications of POs mapping:

	Processes	Work flow	POs mapped
1	Identification of PBL projects and allocation methodology to Faculty Members	1. Formation of groups 2. Assignment of Project Guide 3. Identification of Project 4. Finalization of Project Title	PO2 (Problem Analysis)

		and Synopsis	
2	Types and relevance of the PBL projects and their contribution towards attainment of POs	Categorization of project according to relevance	PO6 (Environment and Sustainability)
3	Process for monitoring and evaluation	1. Project Progress Presentations carried out in a semester (Phase 1 and Phase 2) 2. Grading of Project based on presentation, Implementation and Report rubrics	PO10 (Communication Skills) PO11 (Project Management and Finance) PO8 (Ethics)
4	Process to assess individual and team performance	1. Problem Definition 2. Concept 3. Team Work 4. Organization 5. Knowledge and 6. Effectiveness of Delivery	PO9 (Individual and Team Work)
5	Quality of completed PBL projects/ working prototypes/Awards received by projects etc.	1. Project demonstration for the working 2. prototype Report evaluation	PO4 (Investigate Problem) PO5 (Engineering Tool Usage)
6	Evidences of Papers Published/Awards received by projects.	1. List of Possible Publications 2. List of Possible Patents 3. List of Projects awarded in (Open Day- Competition)	PO8 (Ethics) PO9 (Individual and Team Work) PO10 (Communication Skills) PO12 (Lifelong Learning)

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(An Autonomous Institute under VTU, Belagavi, Karnataka – 590018)

Avalahalli, Doddaballapur Main Road, Yelahanka, Bengaluru, Karnataka – 560064

DEPARTMENT OF CIVIL ENGINEERING OPEN DAY on 13.01.2023:
EVALUATION SHEET - 2020 Batch V SEM

		Team Members	USN	PROJECT TOPIC	Advisor	1 (M-10) Problem Formulation and Synopsis	2 (M-10) Objectives and Methodology	3 (M-20) Implementation/ Presentation Skills	4 (M-10) Viva	5 (M-50) Total Marks	
Group 1	1	Boomika K V	1BY20CV003	Smart detection of overflow of Sewage water in Manhole	Mr Vinod B R	IE:9	IE:9	IE : 18	IE : 9	IE:45	II
	2	Lekha Ramanan	1BY20CV021								
	3	Athish Jaikumar	1BY20CV005			EE: 8	EE: 9	EE: 18	EE: 8	EE: 43	
	4	J Akshit Jain	1BY20CV019								
Group 2	1	Sahas Sinha Reddy	1BY20CV006	Concept of model Connected Citij	Dr Marsh M Bandi	IE:9	IE:9	IE : 18	IE:9	IE:45	I
	2	Satwik Reddy	1BY20CV015								
	3	Praneeth Reddy	1BY20CV025			EE:9	EE:9	EE : 18	EE:9	EE 45	
	4	Kapu Satheesh Reddy	1BY20CV020								
Group 3	1	Supritha A R	1BY20CV037	Design of piezoelectric staircase	Mrs Archana K	IE:8	IE:9	IE:18	IE:8	IE: 43	II
	2	Sheethal L	1BY20CV035								
	3	Ankitha R	1BY20CV002			EE:9	EE:9	EE:18	EE:9	EE:45	
	4	Sparsha K	1BY20CV036								

Internal Evaluator
Dr. DEEPAK MS

1

External Evaluator
Er. Ravi J   13/01/2023
SHIKHAR BUILDERS & CONTRACTORS

DEPARTMENT OF CIVIL ENGINEERING OPEN DAY on 13.01.2023:
EVALUATION SHEET - 2021 Batch III SEM

		Team Members	USN	PROJECT TOPIC	Advisor	1 (M-10) Problem Formulation and Synopsis	2 (M-10) Objectives and Methodology	3 (M-20) Implementation/ Presentation Skills	4 (M-10) Viva	5 (M-50) Total Marks	
Group 1	1	Gokul Sharma	1BY21CV005	Structural health monitoring system using smart sensors	Dr. ATHIYAMAAN V	IE : 10	IE : 8	IE : 18	IE : 10	IE : 46	I
	2	Saurabh Prasad	1BY21CV020								
	3	Shinola M F	1BY21CV022			EE : 9	IE : 9	EE : 18	EE : 9	EE : 45	
	4	V Pavan	1BY21CV027								
Group 2	1	Prajwal	1BY21CV015	Bagusk based particle boards	Dr. ANUP EKBOTE G	IE : 8	IE : 8	IE : 18	IE : 8	IE : 42	II
	2	Nishant	1BY21CV013								
	3	Manoj	1BY21CV010			EE : 8	EE : 9	EE : 20	EE : 7	EE : 44	
	4	Yashash	1BY21CV029								
Group 3	1	Suhas N	1BY21CV024	Modular building units using polymeric waste	Dr VIBHA V	IE : 8	IE : 8	IE : 19	IE : 7	IE : 42	II
	2	Shashank	1BY21CV021								
	3	Anjusha	1BY21CV003			EE : 9	EE : 8	EE : 19	EE : 8	EE : 44	
	4	Akshay kumar	1BY21CV002								

Internal Evaluator
Dr. DEEPAK MS

2

External Evaluator
Er. Ravi J   13/01/2023
SHIKHAR BUILDERS AND CONTRACTORS

PBL Coordinators   HoD Civil Engineering

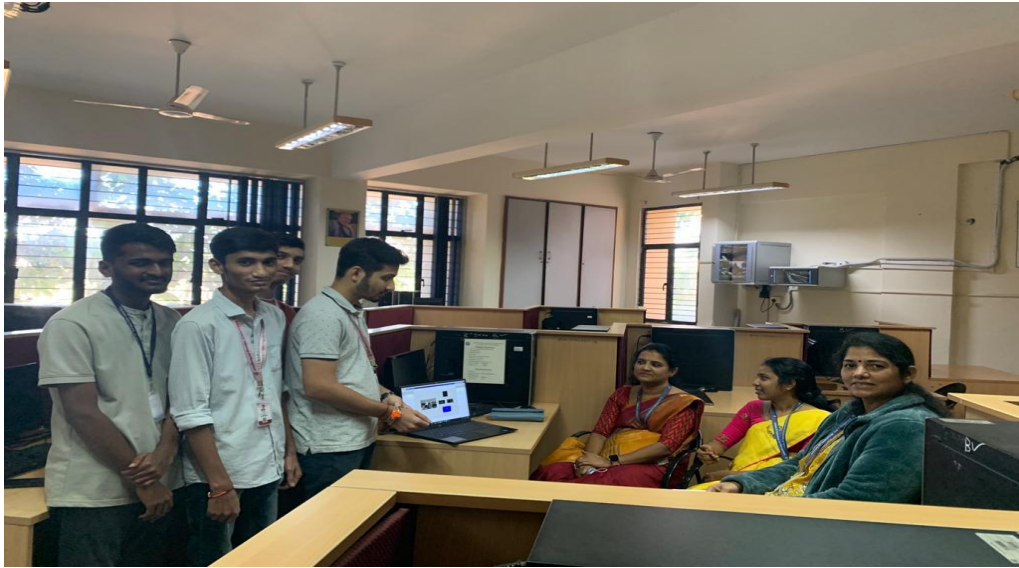# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PBL REPORT

Department of Electronics and Communication Engineering, BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT, Avalahalli, Yelahanka, Bengaluru organized a BMSIT open day on 13th January 2023 in physical mode and students of III and V semester exhibited their projects. The projects exhibited the student's ability to apply their learning to solve the real world problems.

This semester around 105 PBL batches participated in PBL exhibition and 19 Projects were selected for second round of evaluation. These projects were presented on open day and evaluated by panel members consisting of external (from industry) and internal members based on various rubrics.

JUDGES FOR THE EVALUATION

1) **Mr. Shekar R**, AGM/Power Electronics, BHEL, Banglore.

   E-Mail:magi383@gmail.com and Ph.No: **+91 9972060599**

2) **Mr. Mr.Jerin**, Solutions Support Engineer, SAP Labs, Bangalore, India.

   E-Mail: jerinjgb@gmail.com and Ph.No: **+9190360 60270**

PRIZE WINNERS LIST

V Semester

Sl.NO	Name	USN	Title	Guide
			First Prize	
1	Achyuthagowda C P	1BY20EC009	Silk Cocoon Quality Detection System	Dr.Vijayalakshmi G V
	AllaVamsi Krishna	1BY20EC021		
	GangarajuKushal Varma	1BY20EC065		
	Leti Manish Kumar	1BY20EC090		
2	S Kedharsimha	1BY20EC139	Foot Step Power Generation Using Piezo Electric Sensor	Prof.Suryakanth B
	Rakshitgovind T	1BY20EC133		
	Rahul shindhe	1BY20EC130		
	Yashwanth t	1BY20EC192		
3	Tarun U	1By20ec200	Hand Gesture Recognition Using MATLAB	Dr. Anil Kumar D
	Chandu	1by20ec049		
	CHARAN G S	1BY20EC050		
	CHIRAG KUMAR N	1BY20EC051		
			Second Prize	
4	Swathi G S	1BY20EC173	Detection of Kidney Stone Using Image Processor	Prof.ShilpaHiremath
	VanchireddyDeepika	1BY20EC181		
	Yashodha S Sridhar	1BY20EC191		
	Yasmeen Taj H	1BY20EC193		
5	Rahul kumar	1by20ec129	Red Light Accident Prone System	Prof. Asha G Hagargund
	VAISHNAVI	1BY20EC180		
	RISHABH JAISWAL	1BY20EC136		
6	Jayanth.J	1BY20EC074	Application for Text Recognition, Detection and Translation With Speech Output	Prof.ThyagarajTanjavur
	Archana.B	1BY20EC031		
	Deekshitha.B.S	1BY20EC052		
7	H.C SIDDHARTHA REDDY	1BY20EC069	Fire Fighting ROBO	Dr.Rashmi N
	ABHISHEK K	1BY20EC004		
	P S AAKASH	1BY20EC115		
	N SOUNDARYA	1BY20EC105		

III Semester

S.NO	Name	USN	Title	Guide
— First Prize				
1	K Rajmohan	1BY21EC064	Soil Nutrient Measurement System to Support Precision Forming	Dr.Vijayalakshmi G V
	K Shreyas	1BY21EC065		
	Karthik VT	1BY21EC067		
	Likitha SR	1BY21EC073		
2	Adithya R Hiremath	1BY21EC004	Autonomous Ship With Oceanographic Sensor	Dr. Anil Kumar D
	Anu C Patil	1BY21EC015		
	Basavaprabhu S H	1BY21EC027		
	G P Varshini	1BY21EC045		
3	SatyanarayanPrashar	1BY21EC139	GETIT Application	Prof.ShilpaHiremath
	Saurav Mishra	1BY21EC140		
	Ram Kumar	1BY21EC122		
Second Prize				
4	Charithra V	1BY21EC032	Discern-NO	Dr.Anitha V R
	Greeshma KS	1BY21EC049		
	DhanyaSubhaschandra Bhat	1BY21EC040		
	BharathVasishta R	1BY21EC029		
5	Spandan S Salimath	1BY21EC151	Automatic Irrigation System Adjustable According to the Season	Dr.Deepa N. Reddy
	Satish Mallappa B Patil	1BY21EC138		
	Suhas B S	1BY21EC154		
	Yugal Kishore V	1BY21EC182		
6	P.ShishirAithal	1BY21EC101	OET Meter	Prof. Asha G Hagargund
	KarthikPatil	1BY21EC066		
	R Subhash	1BY21EC115		
	Jhenkar MJ	1BY21EC062		

Program Outcomes Mapped and justification

PBL projects are mapped to PO1, PO2, PO3, PO6, PO9, PO10, PO11, P012.

PBL Coordinator   HoD

(ECE)

DEPARTMENT OF ELECTRICAL

AND

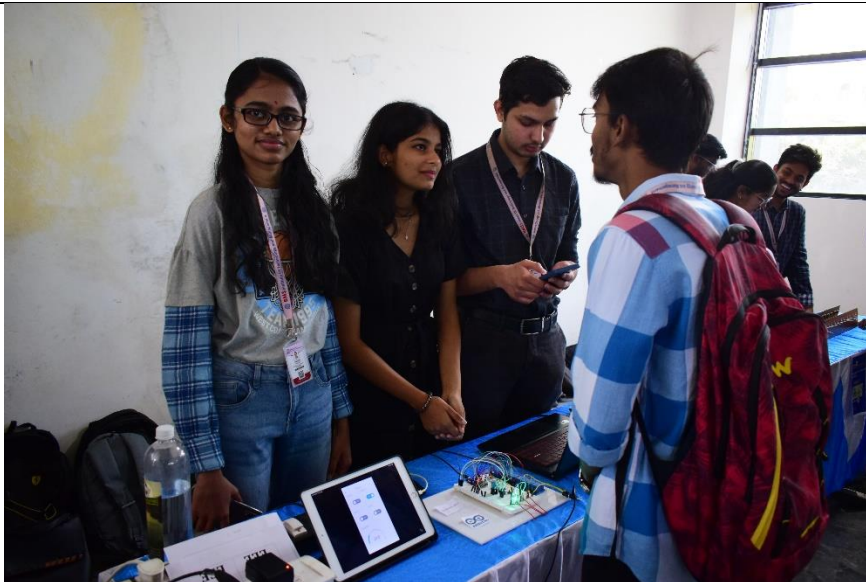# ELECTRONICS ENGINEERING

Open Day at BMSIT&M

E&EE Department organized the Open Day at BMSIT&M on 12th and 13th of January, 2023. The PBL Projects were evaluated on 12th January by the BMSIT&M internal judges and selected 3 entries from the 2nd and 3rd year, were further evaluated by the external judges on 13th January, 2022.

Mr. Murali Krishna, Dy.Manager/Power Electronics, BHEL was the invited external judge for the Open Day. The following are the winners of the PBL Project Exhibition cum Competition.
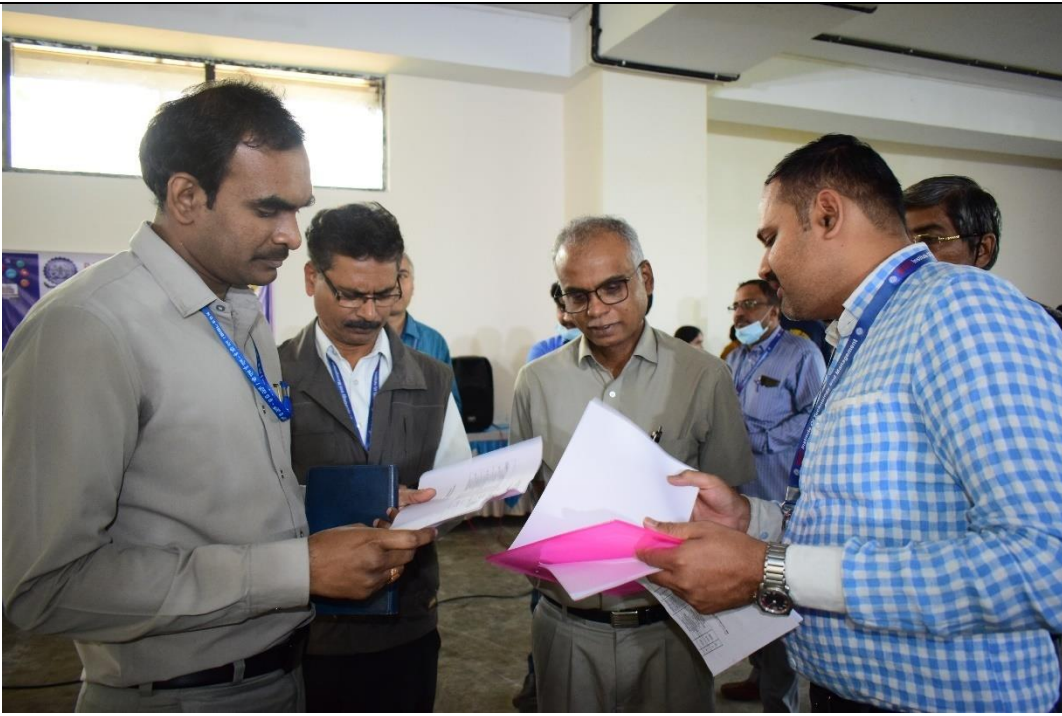
	3rd Sem				
Batch	**Name**	**USN**	**Project Title**	**Guide**	**Winners**
B6	R RITHVIK	1BY21EE028	Low Cost Automated Camera Slider	MANJULA B K	First Place
	SIDDHARTH DEVARAJ	1BY21EE042			
	SHIREESH S SHENOY	1BY21EE039			
	ANJAN KUMAR H R	1BY21EE005			
B9	MOHAMMED NAVEED	1BY21EE020	Home Automation using Aurdino	MANJUNATH BABU P	Second Place
	MOON SHUKLA	1BY21EE021			
	ALOK KUMAR	1BY21EE003			
	SNEHA SHAETTY	1BY21EE043			
	5th Sem				
Batch	**Name**	**USN**	**Project Title**	**Guide**	**Winners**
B1	DHARSHAN R	1BY20EE010	Smart Water Control System	DR N RAMARAO	First Place
	PIYUSH PATTNAIK	1BY20EE033			
	RAHUL KUMAR SINGH	1BY20EE042			
	PRAMODHINI P	1BY20EE037			
	VINEETH R HARTHIKOTE	1BY20EE055			
B8	JASHWANTH VARMA M	1BY20EE017	Smart Room System	BABU NAIK G	Second Place
	MIDHYA DEVASIA	1BY20EE027			
	VINAY JALIHAL	1BY20EE054			
	NISARGA G R	1BY20EE029			

The evaluation was based on: the following points: Completion of the set objectives : **10 Marks,** Societal relevance : **10 Marks,** Presentation of the Project: **10 Marks,** Viva Voce : **10 Marks,** Report : **10 Marks**

First round of evaluation was held on 12th January at 11.00 am. The top 3 projects from each of 3rd and 5th Semester competed for a cash prize of 5000 Rs. on 13th January, 2023 at the Lab Block. Few glimpses of the event are as follows:

HoD, EEE

DEPARTMENT OF ELECTRONICS

AND

TELECOMMUNICATION ENGINEERING

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

OPEN DAY REPORT-2023

Department of ETE organized PBL and Open day on 12.1.2023 and 13.1.2023, both 3rdsem and 5thsemstudents participated in the events.The external evaluator DrVinayakababuDirector , 4 semi technology industry evaluated fairly all the projects . There were four projects selected from each semester for event. Students showcase their Projects well and presented well. Two projects from each semester are selected for first and second prize.

Open Day Prize winners

Sl No.	Title of the Project	Sem	USN	Students	Name of the Guide	Prize
1	RF Solution to IOT and WSN	5ᵗʰ	1BY20ET030 1BY20ET032 1BY20ET049	Karthik S Halkeri Kiran Veer M SagarKothawar	Dr. Thejaswini S	I
2	Accident prevention alcohol Monitoring systems		1BY20ET029 1BY20ET059 1BY20ET046 1BY20ET008	K SreeCharan T Sai kiran Reddy Ram Kumar D.AnirudhKarthik	Dr. Sowmyashree M S	II
3	Electronic Control unit	3ʳᵈ	1BY21ET033 1BY21ET008 1BY21ET010 1BY21ET021	R Venkatesh AsrithyaVardhan Chandan E Narasimha Murthy	Dr. Seema Singh	I
4	Design and Development of Cost effective Ventilation		1BY21ET009 1BY21ET018 1BY21ET027 1BY21ET036	Bellishree B M Janhavi.V Prakruthi.M.C Riya Pawar	Dr.Mallikarjuna Gowda CP	II

POs mapped:
PO3, PO8, PO9, PO10, PO11, PO12

Project Coordinator   **HOD,ETE**
                    (Prof. Saritha I G)   (Dr.Mallikarjuna Gowda C P)

DEPARTMENT OF

MECHANICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

The DepartmentofMechanicalEngineering,BMSINSTITUTEOFTECHNOLOGY ANDMANAGEMENT,Avalahalli,Yelahanka,Bengaluruorganizeda PBLProject review on 12th and 13thJanuary 2023 to exhibit the project work carried out by the studentsof the III and V semester students. These projects showcase the student's ability to apply theirlearningto solve the real-worldproblems.

In this semester, III semester students were grouped into 7 PBL batches (four students in each batch), while V semester students were grouped into 15 PBL batches (four students in each batch) and totally 22 PBL batches carried out different projects. Most of the projects involves design and fabrication work and few were simulation or analysis based. All these projects were evaluated by internal committee on Thursday,12th January 2023 based on the variousrubrics in preliminary round and after critical evaluation 5 best projects from V semester and 3 best projects from III semester batches were selected for final round for OPEN DAY – Exhibition on Friday, 13th January 2023.

The details are as follows:

Semester: V

SI NO.	Group/ Batch No.	Name of the student	USN	Title of the Project	Name of the Guide
1	B1	BHOOMIKA BHAT	1BY20ME009	POWER GENRATION USING FARADAY THEORY	Dr. KEERTH IKUMAR N
		RAHUL KUMAR	1BY20ME037		
		SHREYAS KASHYAP	1BY20ME044		
		V V SAI VEEKSHANA	1BY20ME048		
2.	B3	ATHARVA DESAI	1BY20ME007	AUTOMATED WATER TANK CLEANING MACHINE	PROF. K. CHANDRASHE KARA REDDY
		CHETAN GADA	1BY20ME011		
		GAURAV TRIPATHI	1BY20ME017		
		LOBEMO MARK KIKON	1BY20ME020		
3.	B10	SHYLESH A	1BY21ME410	AUTOMATED	PROF. T N

		NAVEEN N M	1BY21ME407	STREET LIGHT CONTROLLER	**PRAVEEN KUMAR**
		TARUN R	1BY21ME412		
		SHIVRAJ	1BY20ME043		
4.	B6	ANANTHA H V	1BY21ME400	AUTOMATED COCONUT CREAPER	**PROF. NITHYA POORNIMA**
		HEMANTH KUMAR G	1BY21ME404		
		S CHANDAN DEVADATT	1BY21ME409		
		VISHWANATH S M	1BY21ME414		
5	B7	MOHIT K M	1BY20ME028	WATER LEVEL INDICATOR	**Prof. SRIGANESH T G**
		PAVAN M	1BY20ME035		
		M JAWAHAR BABU	1BY20ME024		
		NISHANTH M	1BY19ME402		

Semester: III

SI NO.	Group/ Batch No.	Name of the student	USN	Title of the Project	Name of the Guide
1	B3	JOTHISHWAR KANNAN	1BY21ME016	PICK AND PLACE ROBOT	**PROF. SUNDARESH S**
		R ANANTH	1BY21ME017		
		SYED ZAID	1BY21ME018		
		HARSH YADAV	1BY21ME015		
2.	B4	AISHWARYA V	1BY21ME006	IMPROVING AERODYNAMICS WITH BIOMIMICRY	**DR. Y J JAGADEESH**
		GANESH S	1BY21ME014		
3.	B7	MADHUKIRAN A.E.	1BY21ME018	DEDICATED HIGHWAY OVERHEAD LANES	**DR. RAVICHNADRA K**
		PRASANNA.S	1BY21ME023		
		PRUTHVI.P	1BY21MEO24		
		YASH HARSHAD GODISHWAR	1BY21ME039		

In the final round held OPEN DAY on Friday, 13th January 2023, Mr. BALAKRISHNA KAMAT, Senior Manager - Operations, Supply Chain Analytics, GenpactPvt Ltd, Bengaluru as External Industry expert and Dr. O GURUMOORTHY, Assistant Professor as Internal Academic member critically evaluated these projects based on the societal relevance, completion of the set objectives, presentation and queries and finally rated the projects based on the marks scored. Top two projects

from each semester were awarded with a cash prize.The details of the award-winning projects are as follows:

PRIZE WINNERS List

SI NO.	Name of the student	USN	Title of the Project	Name of the Guide	POSITION
1	BHOOMIKA BHAT	1BY20ME009	POWER GENRATION USING FARADAY THEORY	Dr. KEERTH IKUMAR N	I PRIZE
	RAHUL KUMAR	1BY20ME037			
	SHREYAS KASHYAP	1BY20ME044			
	V V SAI VEEKSHANA	1BY20ME048			
2.	ATHARVA DESAI	1BY20ME007	AUTOMATED WATER TANK CLEANING MACHINE	PROF. K. CHANDRASHEKARA REDDY	II PRIZE
	CHETAN GADA	1BY20ME011			
	GAURAV TRIPATHI	1BY20ME017			
	LOBEMO MARK KIKON	1BY20ME020			

Semester: V

Semester: III

SI NO.	Name of the student	USN	Title of the Project	Name of the Guide	POSITION
1	AISHWARYA V	1BY21ME006	IMPROVING AERODYNAMICS WITH BIOMIMICRY	DR. Y J JAGADEESH	I PRIZE
	GANESH S	1BY21ME014			
2.	MADHUKIRAN A.E.	1BY21ME018	DEDICATED HIGHWAY OVERHEAD LANES	DR. RAVICHNADRA K	II PRIZE
	PRASANNA.S	1BY21ME023			
	PRUTHVI.P	1BY21MEO24			
	YASH HARSHAD GODISHWAR	1BY21ME039			

Glimpses of OPEN DAY – Project Exhibition

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

OPEN DAY   REPORT

Project exhibition was organized on 13th January 2023 for 3rd year and 2nd year students of ISE Dept. and evaluation of projects were carried out by two eminent industry expert, Mrs. Praveen CEO of Digipix Technology, Bangalore and one more expert Mrs. Kumar Goud ,Manager of Capgemini after various process of PBL Reviews with in internal expert team evaluation from Dept. of ISE. and as per the calendar of events 20/10/2022 was for PBL team formation and guide allotment followed by 2/11/2022 for synopsis submission and 15/11/2022 PBL Review1 and 23/12/2022 PBL review2 and 13/1/2023 open day was organized
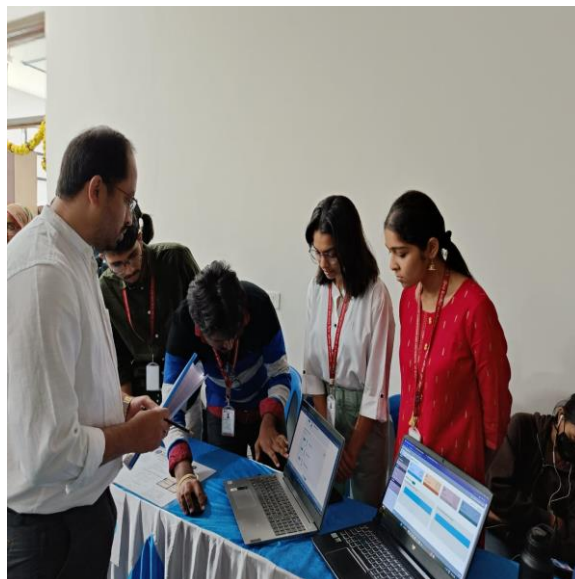
Open day	HOD and PBL coordinators on OPEN day

5thsem students giving Demo of their project for HOD on OPENDAY	Evaluator Mrs. Praveen evaluating project on OPEN day for 2year students
Evaluator Mrs. Kumar Goud evaluating project on OPEN day for 3year students along with PBL coordinators Dr.Drakshaveni G and Dr.Anilkumar	HOD and PBL coordinator watching the projects

Fifth sem students forProject exhibition

Fifth sem students forProject exhibition

First review of fifith sem students

Second review from team of ISE staff

| Second PBLpresentaiton by students | Second PBLpresentaiton by students |

Prize distribution from HOD

Prize distribution from HOD