



BMS

INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Avalahalli, Doddaballapur Main Road, Bengaluru – 560064

DEPARTMENT OF MECHANICAL ENGINEERING

PBL COMPENDIUM

2020 -21

EVEN SEMESTER

PBL REPORT

The Department of Mechanical Engineering, BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT, Avalahalli, Yelahanka, Bengaluru organized a PBL Project review on 30th and 31st July 2021 to exhibit the project work carried out by the students of the IV and VI semester students. These projects showcase the student's ability to apply their learning to solve the real-world problems.

In this semester, IV semester students were grouped into 14 PBL batches (five students in each batch), while VI semester students were grouped into 19 PBL batches (four students in each batch) and totally 33 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 30th July 2021 based on the various rubrics in preliminary round and after critical evaluation 7 best projects from VI semester and 5 best projects from 4th semester batches were selected for final round.

The details of the best projects are as follows:

Semester: VI

Sl NO.	Group/ Batch No.	Name of the student	USN	Title of the Project	Name of the Guide
1	2	KIRAN V	1BY18ME027	Prototype helmet development for efficient heat management	Prof. O Gurumoorthy
		N SHARAN	1BY18ME032		
		SUDEEP KS	1BY18ME058		
		SUNIL KUMAR G	1BY18ME059		
2.	7	ALAP MUNDAYOOR	1BY18ME008	Fabrication of a Single Axis Solar Tracking System for Power Generation	Dr. K M Sathish Kumar
		ANKITH G NAMBIAR	1BY18ME009		
		AJAY SUNIL KORUTH	1BY18ME005		
		NIHAL U SHETTY	1BY18ME034		
3.	5	SHRAVAN SALUJA	1BY18ME054	Automated drainage cleaning system	Prof. T N Praveen Kumar
		SOUTRIK ROY	1BY17ME055		
		SAKSHAM SINGH	1BY18ME067		
		PRINCE PRABHAKAR	1BY18ME041		
4.	8	HRITHIK SHAW	1BY18ME021	Automatic side stand of a motorbike	Prof. K Chandrasekhara Reddy
		JAYANT BHANSALI	1BY18ME022		
		TARUN PACHAURI	1BY18ME060		
		VIPAN SINGH	1BY18ME062		
5	1	KARAMJEET SINGH	1BY18ME025	Design of Smart Parking System	Dr. Y J Jagadeesh
		MILAN CHAUDHARY	1BY18ME065		
		NITHIN S	1BY18ME038		
		MAZIN OMAR	1BY18ME031		

SI NO.	Group/ Batch No.	Name of the student	USN	Title of the Project	Name of the Guide
6	6	A SAI SUMANTH	1BY18ME001	Modelling and Simulation of Remotely Operated Underwater Vehicle	Dr. K N Keerthi Kumar
		SAURABH PRAVIN SRIVASTAV	1BY18ME050		
		SHIVAM SUNDRIYAL	1BY18ME053		
		SIDDHARTH A	1BY18ME056		
7	7	EBAD KAUSER	1BY18ME017	Designing Phoropter using Liquid Lens	Dr. Sangamesh B
		KARTIKEY AWASTHI	1BY18ME026		
		ADARSH DESAI	1BY18ME004		
		SHIVAM KUMAR	1BY18ME052		

Semester: IV

SI NO.	Group/ Batch No.	Name of the student	USN	Title of the Project	Name of the Guide
1	1	SAYANTAN BANERJEE	1BY19ME039	Automated Flush System for toilet	Prof. T N Praveen Kumar
		ABHISHEK B JOSHI	1BY19ME001		
		BHANUSHANKAR T.J	1BY19ME008		
		AYUSH CHANDRA	1BY19ME005		
		RENNIE SIBY	1BY19ME033		
2.	4	ASHITH KUMAR BADAGI	1BY19ME004	Decontamination of Contaminated Sump	Dr. G.L Ananthkrishna
		K L HARSHA AIYAPPA	1BY19ME017		
		RAJATH M PATEL	1BY19ME032		
		SAMARTH NADIG	1BY19ME037		
3.	8	SHASHANK KS	1BY19ME040	Design and fabrication of box transport mechanism	Prof. Madhu M C
		VINOD KUMAR S	1BY19ME052		
		CHEZHAN KUMAR G.A	1BY19ME011		
		THARUN GOWDA M	1BY19ME050		
		RAHUL RATHOD	1BY19ME031		
4.	12	KARTHIK DB	1BY19ME020	Development of Automated Writing and Drawing Machine (Voice Controlled)	Dr. Y J Jagadeesh
		PITTALA PARTHA SARATHI	1BY19ME029		
		BRIJESH M R	1BY19ME010		
		VASANTH KUMAR G	1BY19ME051		
		TANVEER HUSSAIN K	1BY19ME048		
5	9.	VIVEKANANDA VIJAY KUMAR EXAMBI	1BY19ME054	Modified four stroke engine (Using the principle of electromagnetism)	Dr. K N Keerthi Kumar
		DAIVIK P SHETTY	1BY19ME057		
		SHIV KUMAR PATIL	1BY19ME042		
		B S LALITH	1BY19ME006		
		MANU HARIHARAN S	1BY18ME029		


Glimpses of Online reviews

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WORKING ILLUSTRATION

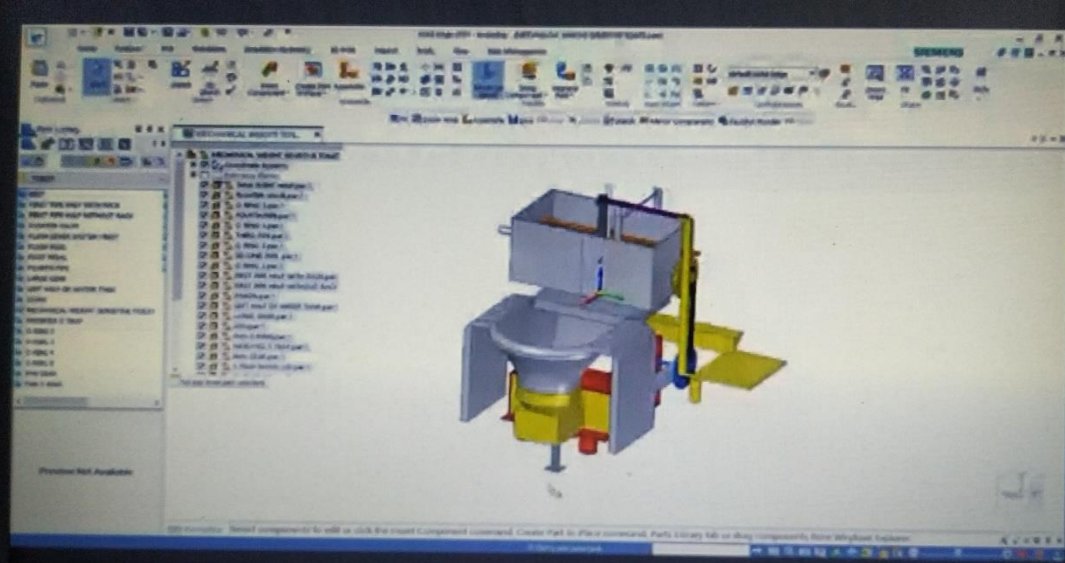
- At any given time the panel will be facing the power source, the light sensor will sense the maximum intensity of light at any given time. This data is analysed by an electronic module, which will subsequently activate the motor in response to the analysed data.



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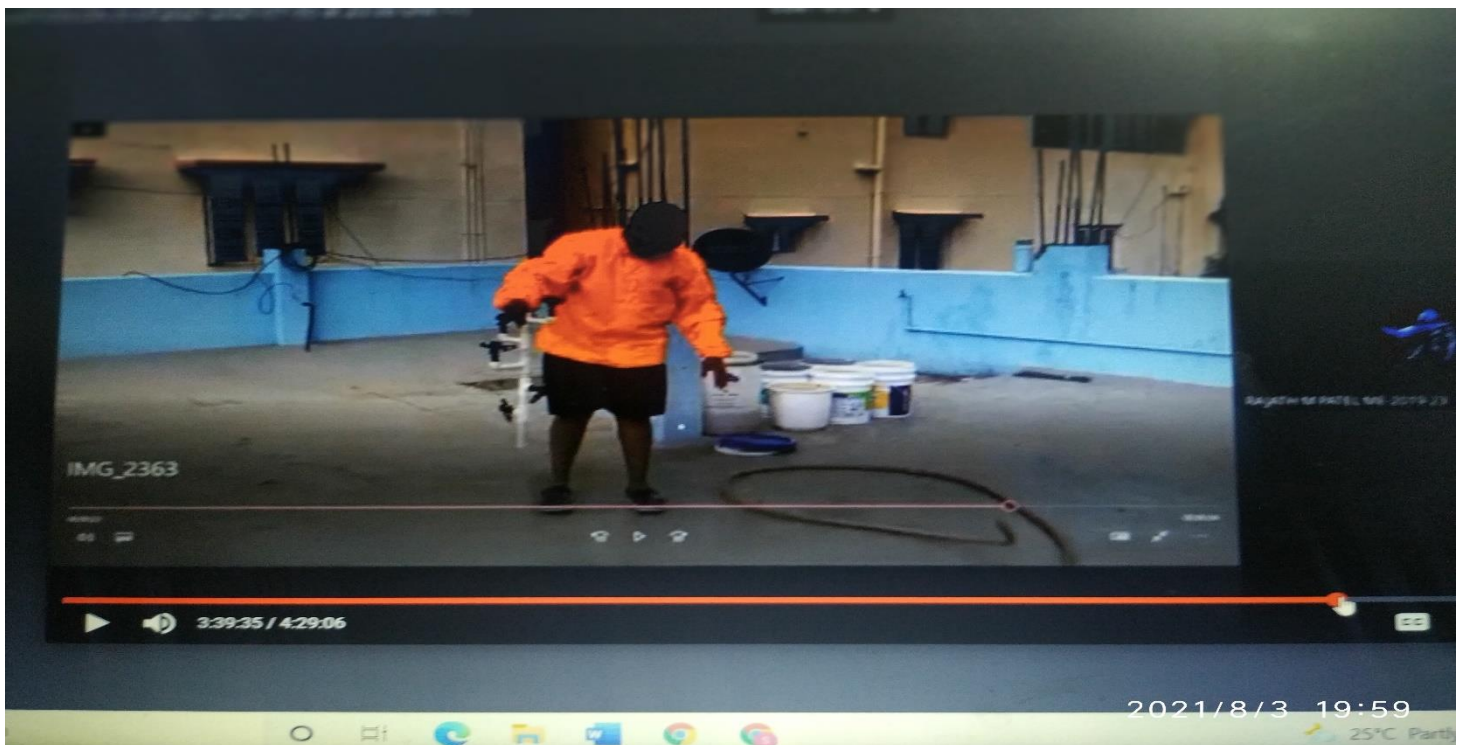
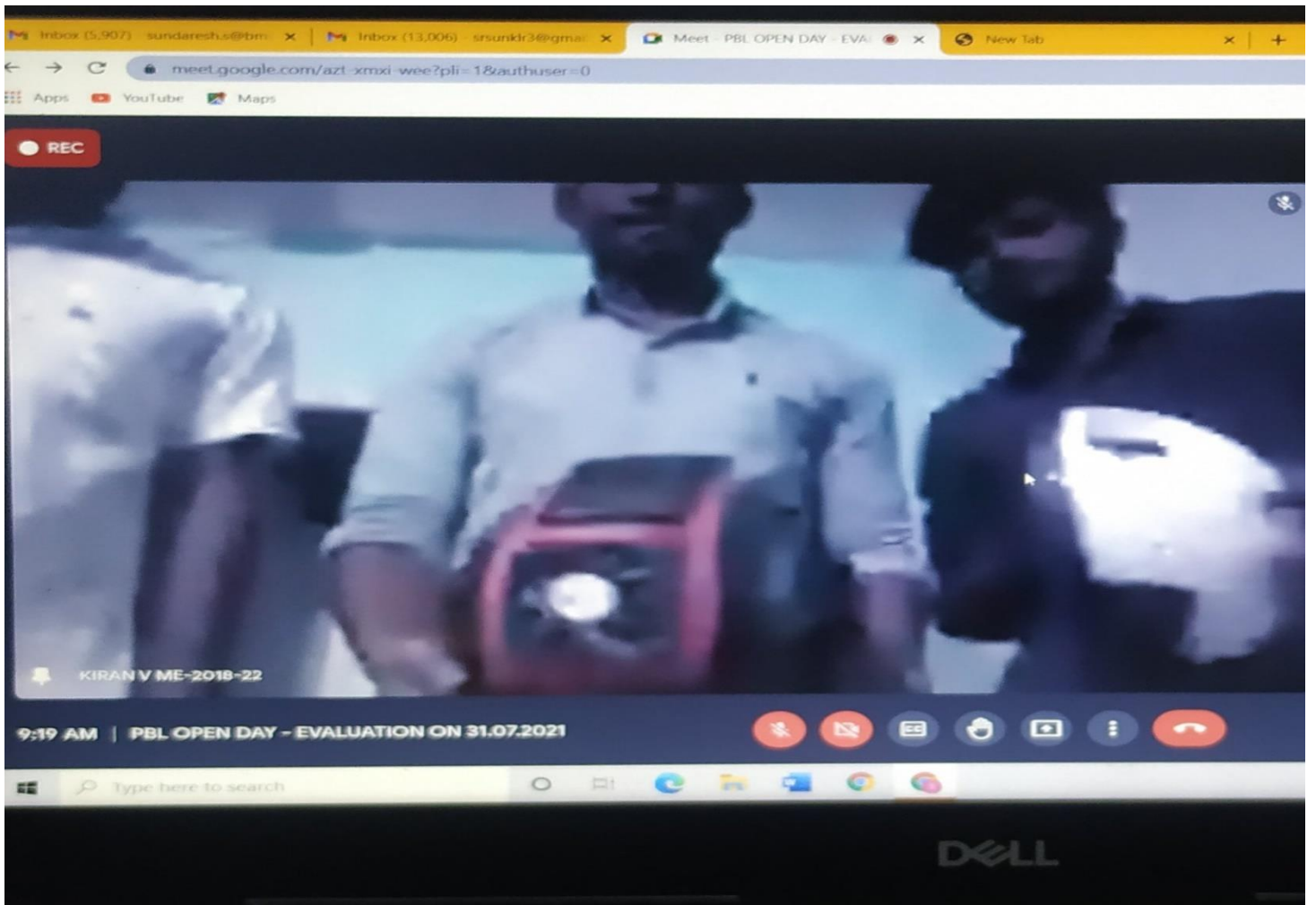
ALAP MUNDAYOOR ME-2019-22

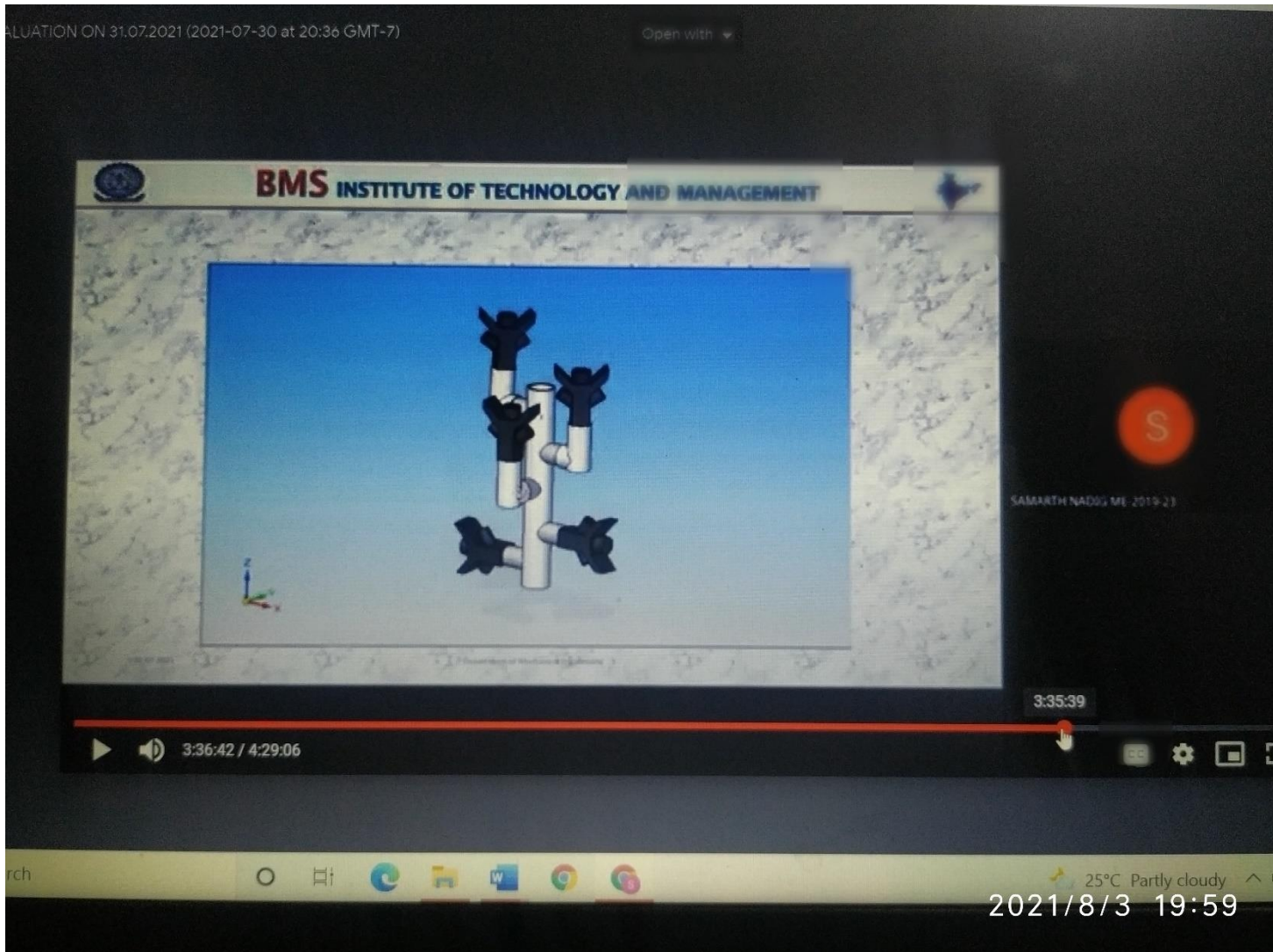
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In the final round held on 31st July 2021, Mr. Shivanand Gudadinni, Project Leader, Quest Global Services Pvt. Ltd, Bengaluru as External Industry expert and Prof. Sundares S as Internal Academic member critically evaluated these projects based on 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:

IV Semester:

Position Awarded	Name of the student	USN	Title of the Project	Name of the Guide
FIRST	KIRAN V	1BY18ME027	Prototype helmet development for efficient heat management	Prof. O Gurumoorthy
	N SHARAN	1BY18ME032		
	SUDEEP KS	1BY18ME058		
	SUNIL KUMAR G	1BY18ME059		
SECOND	ALAP MUNDAYOOR	1BY18ME008	Fabrication of a Single Axis Solar Tracking System for Power Generation	Dr. K M Sathish Kumar
	ANKITH G NAMBIAR	1BY18ME009		
	AJAY SUNIL KORUTH	1BY18ME005		
	NIHAL U SHETTY	1BY18ME034		

VI Semester:

Position Awarded	Name of the student	USN	Title of the Project	Name of the Guide
I	ASHITH KUMAR BADAGI	1BY19ME004	Decontamination of Contaminated Sump	Dr. G.L Ananthakrishna
	K L HARSHA AIYAPPA	1BY19ME017		
	RAJATH M PATEL	1BY19ME032		
	SAMARTH NADIG	1BY19ME037		
II	SAYANTAN BANERJEE	1BY19ME039	Automated Flush System for toilet	Prof. T N Praveen Kumar
	ABHISHEK B JOSHI	1BY19ME001		
	BHANUSHANKAR T.J	1BY19ME008		
	AYUSH CHANDRA	1BY19ME005		
	RENNIE SIBY	1BY19ME033		

PBL Coordinator

HoD-ME