Vidya Pratishthan's

Kamalnayan Bajaj Institute of Engineering and Technology, Baramati-413133

Approved by AICTE New Delhi and Govt. of Maharashtra, Affiliated to Savitribai Phule University

NAAC 'A' Grade

Report on

PBL-Model/Poster Presentation

Date: 06/07/2022

Submitted By
Dr. Vipin B. Gawande
PBL-Coordinator, First Year Engineering Department.

About Institute

Vidya Pratishthan's Kamalnayan Bajaj institute of Engineering and Technology is located in Baramati, Dist.-Pune, Maharashtra. The college is affiliated to Savitribai Phule University, Pune (SPPU) and has NAAC 'A' grade. The institute has more than 2000 students pursuing their UG and PG degree in Engineering courses. Our institute has excellent infrastructure, friendly clean environment, well-equipped Modern Laboratories, dedicated faculty and staff.

Project Based Learning (PBL) Poster/Model Presentation-2022

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. 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 problem-based project-oriented model for learning is recommended. The model begins with the identifying of a problem, often growing out of a question or "wondering". This formulated problem then stands as the starting point for learning. Students design and analyse the problem within an articulated interdisciplinary or subject frame. A problem can be theoretical, practical, social, technical, symbolic, cultural and/or scientific and grows out of students' wondering within different disciplines and professional environments. A chosen problem has to be exemplary. The problem may involve an interdisciplinary approach in both the analysis and solving phases. By exemplarity, a problem needs to refer back to a particular practical, scientific, social and/or technical domain. The problem should stand as one specific example or manifestation of more general learning outcomes related to knowledge and/or modes of inquiry.

To evaluate student performance for their PBL projects, a model/poster presentation is organized on 06th July 2022 (Wednesday) at 03.00 p.m. in new building (Ground and First Floor). Total around 421Students from all divisions has participated in the event and presented their ideas in the form of poster and model. The event was organized in association with ISTE student chapter and Institute Innovation Cell (IIC). The event was coordinated by Dr. Vipin B. Gawande, Assistant professor, Department of Mechanical Engineering and supported by faculty members from FE and engineering departments. Head of FE department, Dr. A. G. Sajjan madam and Dr. A. P. Hiwarekar sir, Dean Academics, have provided guidance and timely support along with faculty members from FE Department.

Felicitation of Guest of honour and Judges

Guest of Honour- Dr. Jyoti Rangole, Head IIC Cell

Judge - Dr. Chaitanya Kulkarni, Head Comp. Dept.

Judge - Dr. P. R. Chitragar, Mech. Engg. Dept

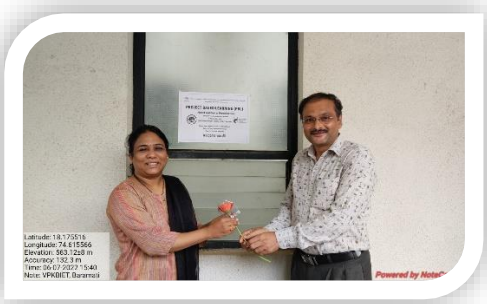
Judge - Mr. Rohit Tarade, Head Elect. Engg. Dept

Judge - Mr. Shashank Biradar, ENTC Engg. Dept

Judge - Mrs. Prachi Kale, Mech. Engg. Dept

Judge - Dr. Samadhan Morkhade, Civil Engg. Dept

Judge - Mr. Digambar Padulkar, AIDS Engg. Dept



Felicitation of Dr. Jyoti Rangole, Head IIC cell

Felicitation of Dr. A. P. Hiwarekar, Dean Acad.

Felicitation of Dr. Vipin Gawande, PBL Coordnator

Inaugauration of event by the hands of Chief Guest

Poster/Model Presentation by the FE- Students


Latitude: 18.175602
Longitude: 74.615767
Elevation: 563.12±4 m
Accuracy: 19.7 m
Time: 06-07-2022 16:31
Note: VPKBIET, Baramati
Powered by NoteCam


Latitude: 18.175613
Longitude: 74.615775
Elevation: 563.12±8 m
Accuracy: 26.6 m
Time: 06-07-2022 16:33
Note: VPKBIET, Baramati
Powered by NoteCam


Latitude: 18.175671
Longitude: 74.61586
Elevation: 563.12±6 m
Accuracy: 19.0 m
Time: 06-07-2022 16:36
Note: VPKBIET, Baramati
Powered by NoteCam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413133


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413133


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413133


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Maharashtra 413133


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413133


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Maharashtra 413133


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Maharashtra 413133


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Maharashtra 413133


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Maharashtra 413133


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Maharashtra 413133


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Maharashtra 413133


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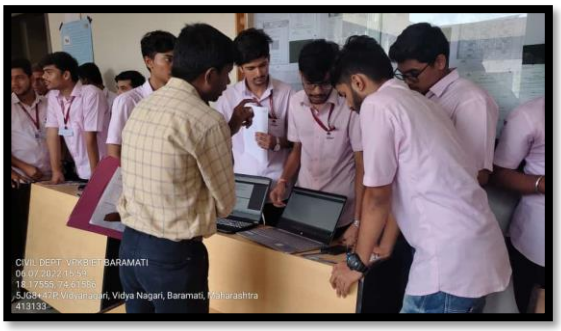
Maharashtra 413133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413133


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VP College, 5JG8+47P, Vidyanagari, Vidya Nagari, Baramati,
Maharashtra 413133


CIVIL DEPT VPKBIET BARAMATI
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Maharashtra 413133


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Vidya Nagari, 5JG8+77R, Vidyanagari, Vidya Nagari, Baramati,
Maharashtra 413133


CIVIL DEPT VPKBIET BARAMATI
06.07.2022 15:58
18.17551, 74.61577
VP College, 5JG8+47P, Vidyanagari, Vidya Nagari, Baramati,
Maharashtra 413133

Students have presented the projects on advanced technologies like Block Chain, Web Development, Internet of things (IoT), Artificial Intelligence (AI), etc. Some students demonstrated their ideas through model in the area of renewable energy, environment sustainability, irrigation model for farmers, manufacturing clay bricks, structural audit of water tank, hydro power plant etc. Students mainly focused on providing solutions to the problem statements from day-to-day life which includes, smoke/gas detection model, automatic system for watering the plants, theft detection system, keyless door lock system, traffic light simulator, temperature and humidity detecting model, home automation system, heartbeat detector model, AI voice assistant model, face recognition student attendance system, soil moisture detection model, automatic hand sanitizer dispenser, etc. Few students work on the programming languages like HTML, Python for web development projects. The projects in these categories include I-Note book project, website for tourism, information hiding in image using python, bro browser, super mini golf game etc. The students have taken massive effort for the completion of their projects making use of emerging technologies. The PBL guides have provided necessary support to students for the completion of their projects.

The coordinator is thankful to Hon. Principal Dr. R. S. Bichkar, Hon. Vice Principal Dr. Sudhir Lande, Dean Academics, Dr. A. P. Hiwarekar, Dr. A. G. Sajjan, Head FE, for their guidance and motivation. Coordinator is also thankful to faculty members and non-teaching staff for providing helping hands for the smooth conduction of this event. Special thanks to all the judges who have taken immense effort to evaluate the projects and guided the students for betterment of their projects.

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VP's Kamalnayan Bajaj Institute of Engineeing and Technology, Baramati

Department of First Year Engineering

Evalstion sheet -PBL-Poster/Model Competition -2022

Group No	Titile of project	Name of guide	Marks
1	Tourism Website	Trupti Bhandare	22
2	Direct to Mobile technology	Shahil Shah	13
3	Rain Sensor Alram Project	P. D. More	14
4	Cyber Security	Sahil Shah	21
5	Automatic Hand Sanitizer Dispensor	Vipin Gawande	24
6	Block Chain Technology	Shahil Shah	14
7	Automatic Light using Ultrasonic Sensor	Jyoti Kulkarni	16
8	Theft Detection System	Vishal Bhagwat	11
9	Text Editor	Trupti Bhandare	13
10	Snake Game using Python	Trupti Bhandare	12
11	Temperature Controller and Display	B.S. Salve	24
12	Motion Senosr Light Switch	Vishal Bhagwat	12
13	Construction and study of DC Motor	Abhijeet Gaikwad	12
14	AI Voice Assistant	Shahil Shah	15
15	Face Recognition Student Attendance System	Sahil Shah	11
16	Solar Power	Shahil Shah	19
17	Magnetic Security Alarm System	Abhijeet Gaikwad	9
18	Rainwater Harvesting	Shahil Shah	10
19	Soil Moisture Detection Using Moisture Sensor	M. M. Jadhav	21
20	Watering Using Solar System	B.S. Salve	6
21	Motion Activated Light with Arduino	Jyoti Kulkarni	20
22	Login and Registration using Python Language	Pradip Paithane	20
23	Fire Alarm Using Thermistor	M. M. Jadhav	21
24	Motion detector	M. M. Jadhav / V.S. Survase	23
25	Humidity and Temperature Monitoring system	Jyoti Kulkarni	23
26	Pythn Based Digital Clock	Pradip Paithane	17
27	Personal Voice Assistant Using Python	R. J. Patil	19
28	Report on Components parts of rail	R. J. Patil	11
29	Smart Blind Stick Using Arduino Uno	Vishal Bhagwat	19
30	Super Mini Golf Game	Abhijeet Gaikwad	13
31	Mini Fire Alarm System	Vishal Bhagwat	18
32	Pico Hydro Power Plant	P. D. More	15
33	Automatic Street Light Controller Using LDR	Vishal Bhagwat	14
34	Automatic Light On and Off System	M. M. Jadhav	17
35	Heartbeat Detection	B.S. Salve	17
36	Rain Warter Harvesting	Abhijeet Gaikwad	12
37	AC to DC Circuit	Vishal Bhagwat	8
38	Mutifunctioning Ultrasonic Security Sensor	Jyoti Kulkarni	18
39	Home Automation System	Jyoti Kulkarni	17

Group No	Titile of project	Name of guide	Marks
40	Automated Waterimng Plant System	Jyoti Kulkarni	15
41	Getting Started with HC-SR04 Ultrasonic Sensor	Abhijeet Gaikwad	18
42	Bro Browser	Sahil Shah	21
43	Password Door Lock System Using TinkerCAD	Vipin Gawande	16
44	Gas Sensor using Arduino	M. M. Jadhav / V.S. Survase	16
45	Automated Waterimng Plant System	V.S. Survase	16
46	Car Parking System Using IR Sensor	Vinay Nagalkar	16
47	Digital Keypad Security Door Lock	Vipin Gawande	19
48	Structural Audit of Water Tank	V.S. Survase	16
49	Mental Health Servey	Pradip Paithane	17
50	Home Automation System	Sahil Shah	14
51	Gas Sensor using Arduino Circuit	Vipin Gawande	18
52	Jumbled Word Game	Trupti Bhandare	18
53	Hololens	Abhijeet Gaikwad	16
54	Temperature and Humidity Detecting Device	Vinay Nagalkar	15
55	Getting Started with HC-SR04 Ultrasonic Sensor	Vinay Nagalkar	16
56	Smart and Contactless Dustbin	Pradip Paithane	14
57	Information Hiding in Image Using Python	Pradip Paithane	16
58	Manuacturing Clay Bricks from Sludge	R. J. Patil /V.S. Survase	22
59	Digital Clock	Vipin Gawande	18
60	Multipurpose Smoke Detection Using MQ6 Sensor	M. M. Jadhav	12
61	I- Note Project	Supriya Gadge	18
62	Ultrasonic Security System	Vipin Gawande	18
63	Arduino Tempertaure Sensor	Vipin Gawande	17
64	Full Wave Bridge Rectifier	P. D. More	17
65	Water level Indicator	B.S. Salve	20
66	Arduino Traffic Light Simulator	Vinay Nagalkar	14
67	Remote Control car Using Arduino in TinkerCAD	Vipin Gawande	21
68	Ardhino Keyless Door Lock System	Jyoti Kulkarni	17
69	Visitor Counter	B.S. Salve	20
70	Smaoke Detector Alarm	B.S. Salve	13
71	Solar Operated Spray Pump System	V.S. Survase/ R.J. Patil	18
72	Bus Management System	R. J. Patil	12
73	Python Turtle Progaming	Sahil Shah	13

Submitted By
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PBL-Coordinator

H.O.D
(Dr. A. G. Sajjan)

VP's Kamalnayan Bajaj Institute of Engineeing and Technology, Baramati

Department of First Year Engineering

Winner Teams -PBL-Poster/Model Competition -2022

Team no	Titile of project	Prizes	Marks
5	Automatic Hand Sanitizer Dispensor	**First winner**	24
11	Temperature Controller and Display	**First winner**	24
24	Motion detector	**Second Winner**	23
25	Humidity and Temperature Monitoring system	**Second Winner**	23
1	Tourism Website	**Third Winner**	22
58	Manuacturing Clay Bricks from Sludge	**Third Winner**	22

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