

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 421 Students 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



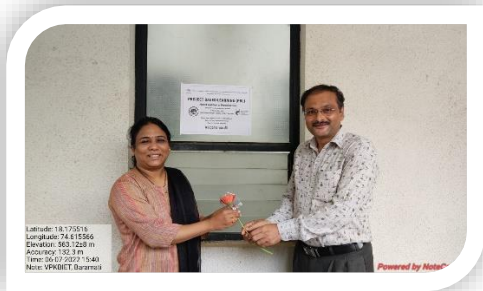
Judge - Mr. Shashank Biradar, ENTC Engg. Dept

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 Coordinator



Inauguration of event by the hands of Chief Guest

Poster/Model Presentation by the FE- Students





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Longitude: 74.615767
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Note: VPKBET, Baramati

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Note: VPKBET, Baramati

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Note: VPKBET, Baramati

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413133



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413133



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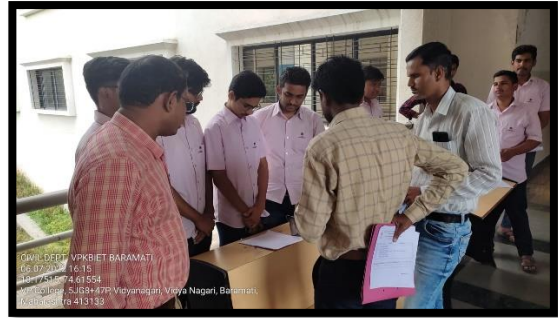
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Maharashtra 413133



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Maharashtra 413133



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Maharashtra 413133



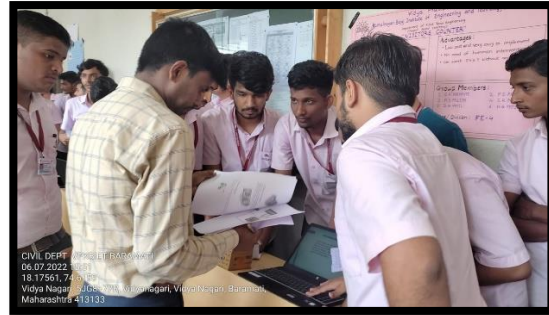
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Maharashtra 413133



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.
