

Math lab design in computer to analyses data

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Received: June 1, 2022, Manuscript No. mathlab-22-65856; **Editor assigned:** June 3, 2022, PreQC No. mathlab-22-65856 (PQ);

Reviewed: June 17, 2022, QC No mathlab-22-65856; **Revised:** June 22, 2022, Manuscript No. mathlab-22-65856 (R); **Published:** June 29, 2022

Introduction

MATLAB is an on-line system providing machine aid for the mechanical symbolic processes encountered in analysis. MATHLAB is an on-line system providing machine aid for the mechanical symbolic processes encountered in analysis. It is capable of performing, automatically and symbolically, such common procedures as simplification, substitution, differentiation, polynomial factorization, indefinite integration, direct and inverse Laplace transforms, the solution of linear differential equations with constant coefficients, the solution of simultaneous linear equations, and the inversion of matrices. It also supplies fairly elaborate bookkeeping facilities appropriate to its on-line operation. Math Lab provides free tutoring for mathematics courses numbered through 217. Though help is not regularly available for other courses, we will attempt to answer the questions of any U-M student who comes to us for mathematics help Math lab is spacious and well equipped with all the updated instruments, gadgets and charts. It helps students improvise their mathematical concepts and skills. Through games and puzzles, students can experiment and explore patterns and ideas. The lab widens the experiential base and lays groundwork for later learning of new areas of mathematics and helps to make appropriate connections between the known and unknown in mathematics.

Description

Indeed, it builds up interest and confidence in the student towards learning and doing mathematics. Now students can access additional resources to hone their mathematical skills. The East Coast campus has inaugurated a state-of-the-art Math Lab in October 2018 that will help the students practice and learn math beyond the classrooms. Keeping in mind the 9 GEMS model, the lab is designed to help students explore, experiment, discover and develop an interest in mathematics. Math Lab has multiple resources like the Fraction kit, Roman Number kit, Place Value kit that help the students to understand concepts in depth and thereby fostering lifelong learning. The lab is equipped with 3D models that enforce fun-learning and provide an opportunity to touch and deduce the properties associated with it. The lab also offers them ample opportunities to practice and master mathematical concepts in concrete, pictorial and abstract ways. Through these value-added learning aids, the students explore mathematical concepts and learn to verify facts. This will build students' interest and confidence in the subject and remove their fear of math. The Math Lab has been set up with the aim that students discover mathematics by doing.

Conclusion

The activities will help students to visualise, manipulate and reason the concepts. It is a place to enjoy mathematics through informal exploration. The Math Lab is a space offering drop-in tutoring, appointment tutoring, and a productive student workspace. The primary goal is to provide quality tutorial services to undergraduate students at Spelman College. Services are free and available in a variety of mathematics courses and software (i.e. Contemporary Mathematics, Intermediate Algebra, Pre-Calculus I and II, Calculus I, II, and III, Differential Equations, Maple, MATLAB). All Spelman students are welcome to come, study, and ask questions. The Math Lab is staffed by Spelman College students. The Applied Mathematics Lab of the Courant Institute is an interdisciplinary research lab whose interests span applied mathematics, physics, and biology, and which uses the tools of experimental observation and measurement, and mathematical modelling, simulation, and analysis. The experimental labs occupy a suite of rooms on the ground floor of Warren Weaver Hall at 251 Mercer street, just one block west of Broadway. The laboratory opened in the spring of 1998 following a space renovation funded by the Estate of Edward A. Sears and by the Mobil Foundation. The laboratory joins a small but select group of experimental facilities housed within Departments of Mathematics. The AML is an arena where mathematical theory and numerical simulation collide with experimental observation and measurement. A primary focus of experimental and theoretical research in the lab has been the interaction of flowing fluids with moving and flexible bodies, inspired by biological and geophysical phenomena.

Acknowledgement

None

Conflict of Interest

The authors are grateful to the journal editor and the anonymous reviewers for their helpful comments and suggestions.

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