STUDENTS' ACHIEVEMENTS

Dr. Devanshi Dave

Dr. Devanshi Dave has joined as a Post-Doctoral Researcher at the Department of Biomedical Engineering, Medical College of Wisconsin, Milwaukee, Wisconsin, United States
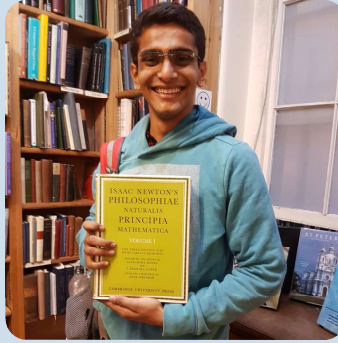
Ph.D. – 2020

Mr. Harshil Patel

Mr. Harshil Patel has successfully completed his AIESEC Leadership Development Experience through a Global Volunteer opportunity tackling the Sustainable Development Goal Decent Work And Economic Growth on January 30th 2018.

B.Sc. (Hons.)– 2021

Mr. Dhairya Shah

B.Sc. (Hons.)- 2021

Beginning with his first research paper in the first year, Mr. Dhairya Shah derived a formula for finding the exact number of iterations required for the Fixed–Point–Iteration–Method – which helps to eliminate a step from computations and hence increases the speed of program in certain cases. He presented this paper at a conference organized at Imperial College London and got the certificate of merit in the student category being the youngest participant at the conference.

Apart from research, to explore diverse fields during his undergraduate years, he participated in different student clubs and departmental activities too. In his third year, he was the president of the Astronomy club, logistics head of LBGTQ+ support club, and co–founder and logistics head of the Food club. He has formally developed and taught a bridge course of Mathematics to international students of engineering. Additionally, he has mentored his juniors on a few research papers. He has also led associate committees in organizing three international conferences (MMCITRE 2020, 2021 and 2022). Moreover, He has published 9 research articles in SCOPUS, SCIE and ESCI indexed journals which have 16 citations as of today.

Dhairya is also the only student to date who has secured 10/10 in all the Mathematics courses throughout all semesters. Presently, He is working on developing higher efficient numerical methods for solving system of non–linear equations with better computational efficiency.

Under the mentorship of faculty, he developed and proved "Floor–Ceiling" and "Ceiling–Floor" theorems which have the potential of creating an entire field in Number Theory. Part I of this work is published in "Mathematics" – an international journal with a 2.258 impact factor. It deals with Faulhaber's formula and Fibonacci sequence, which have applications in advanced fields such as quantum gravity and computer science respectively. Part II is also under communication in the same journal.
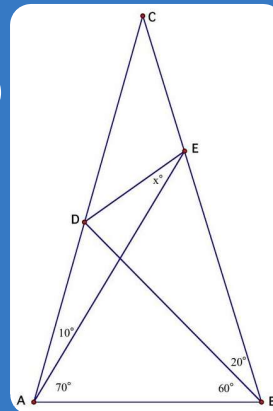
Mr. Ashnil Mandaliya

B.Sc. (Hons.)– 2021

Mr Ashnil Mandaliya has successfully presented a couple of research papers at different international conferences including **AMACS 2018** in London and **MMCITRE-2020** at **PDEU**. He has been the co-founder of the Mathematics club named "Society of Mathematics". He is the gold medalist Mathematics department of the batch of 2017–2021.

Find the value of x(m ∠DEA) in the triangle below. you may only use Elementary Geometry facts - no trigonometry, etc. Please note that the triangle is not drawn to scale.

Ans:20

Faculty Achievement

Dr. Jwngsar Brahma

Assistant Professor

Ministry of Science and Technology
Ministry of Earth Sciences
Ministry of Health and Family Welfare
GOVERNMENT OF INDIA

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VIGYAN
PRASAR

INDIA INTERNATIONAL SCIENCE FESTIVAL 2019

RESEARCH INNOVATION SCIENCE EMPOWERING NATION

CERTIFICATE OF MERIT

THIS IS TO CERTIFY THAT DR./PROF./MR./MRS./MS. _____ — + — _____

Jwngsar Brahma — + — _____ HAS SECURED

I/II/III/CONSOLATION PRIZE/JURY AWARD IN THE _Frontier areas of_

Sciences – Engineering

AS PART OF "INDIA INTERNATIONAL SCIENCE FESTIVAL – 2019" HELD AT BISWA BANGLA CONVENTION CENTRE/SCIENCE CITY/BOSE INSTITUTE/ CSIR-INDIAN INSTITUTE OF CHEMICAL BIOLOGY/SATYAJIT RAY FILM AND TELEVISION INSTITUTE, KOLKATA DURING NOVEMBER 5 TO 8, 2019.

PROF. ASHUTOSH SHARMA
SECRETARY, DST

DR. VIJAY BHATKAR
PRESIDENT, VIJNANA BHARATI