



NEW HORIZON
COLLEGE OF ENGINEERING

SEGMENT 2

May - Sept. 2023



COLOMBUS

DEPARTMENT OF APPLIED SCIENCES

MESSAGE FROM PRINCIPAL



It gives me great pleasure to give my best wishes to the editorial committee of the Department of Applied Sciences, New Horizon College of engineering. The students and faculty of the department are always enthusiastic earners and great thinkers embarking and enriching them know knowledge to grow as our future entrepreneurs and be our future pillars of strength. I congratulate all the achievers, contributors and students for bringing out such a captivating newsletter. May this newsletter instil the best in you.

WITH BEST REGARDS
DR. MANJUNATHA

LETTER FROM HOD



I am delighted to share our collective achievements in this newsletter, highlighting the remarkable efforts of both our students and teachers.

To our dedicated faculty members,

Your commitment to excellence in teaching and research has been the cornerstone of our success. Your passion and tireless efforts to inspire and guide our students do not go unnoticed. Thank you for your invaluable contributions to our department.

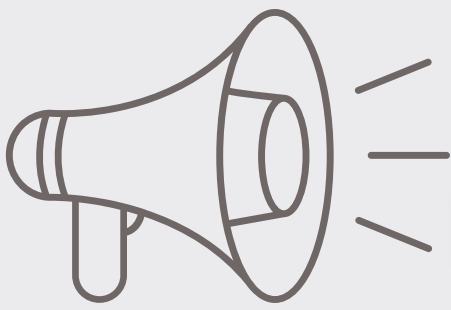
To our outstanding students,

Your achievements this year have been truly impressive. Your curiosity, hard work, and commitment to academic excellence have set a standard for others to follow. We are proud of your accomplishments and look forward to witnessing your continued success in the future.

As we celebrate these achievements, let us also acknowledge the collaborative spirit that defines our department. Together, we create an environment where excellence thrives.

Thank you all for your dedication and contributions.

**Dr. Anusuya Devi V.S
Prof. & HOD – APPLIED SCIENCES**



ABOUT THE DEPARTMENT

Department of Applied Sciences was started in the year 2001. As a fundamental department, supporting all branches in 1st year of engineering, laying emphasis on basics of Sciences and Engineering along with Humanities. Furthermore, it deals with applications of Basic Sciences in engineering discipline covering all the major domains of technology.

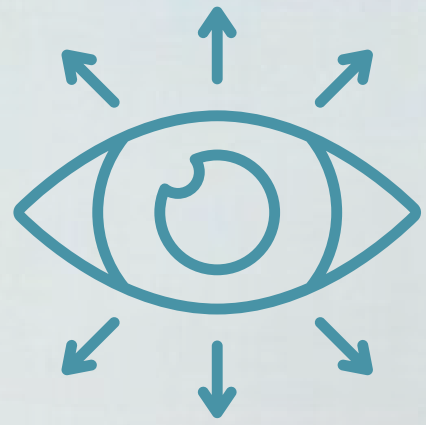
Applied Sciences Department has many dedicated Professors, Associate Professors and Assistant Professors, who are actively involved in research activities. Their experiential insights of research are also reflected in classroom teaching.

Numerous research publications in leading National and International Journals have been produced to the credit of department.

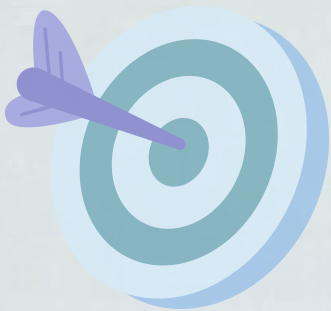
The department has well-equipped laboratories for Engineering Physics, Basic Electrical Engineering, Engineering Chemistry and Languages. Labs of Mechanical Engineering and Computer Science Engineering aid in developing and nurturing the students in the 1st year. The Department stands tall in developing scientific temperament among the budding engineers along with required elements of Humanities.



VISION



To build strong and sustainable platform for churning out quality students bearing appreciable conceptual knowledge and engineering mindsets to their respective branch department(s).



MISSION

To develop and nurture dedicated teaching-learning team equipped with strong personality traits towards application driven approach, encompassing all stakeholders.



DEPARTMENT ACHIEVEMENTS

- The Applied Sciences Department's faculty members have produced notable research in the fields of chemistry, physics, and mathematics. Dept. has authored several papers that have been published in journals with a Q index. The department has published 250 papers in total during the past five years in well-known journals. About 24 books and book chapters have been published by the Department. There have been about 15 filed or published patents.
- This year, a large number of academic members obtained their PhDs. The department has 16 doctorates in total.
- There are roughly sixteen PhD students pursuing their degrees under the VTU-recognized R&D centers for mathematics, physics, and chemistry.
- Faculty members have won ten honors in various categories.
- Our department faculty members have completed a vast array of courses in every category, and we always work to add opportunities for relearning.
- We have effectively finished more than 170 courses between 2017 and 23. We take great pride in our department faculty members' constant efforts to enhance their knowledge and impart it to the students.
- Academics for first-year BE students are handled by the Applied Sciences Dept. 1210 received scholastic mentoring from faculty members. The even semester SEE scores showed an 89% result. 995 students have achieved distinction in their first class, 58 in their first class, and 7 in their second class. Numerous extra -curricular and co-curricular activities have been taken part in by the students.

CO - CURRICULAR CLUBS



MATH HORIZON CLUB

The objective of the club is to provide a unique and enriching experience to students and generating interest in the subject while establishing confidence through skillfully reinforced encouragement



GENESIS CLUB

The objective of the club is to update and upgrade scientific education by transforming abstract information into tangible ideas and to bridge the gap between institute and industry with innovative, entrepreneurial and research ideas

TREE PLANTATION DRIVE

In an earnest effort to contribute to the conservation of the environment and promote sustainable practices, New Horizon College Of Engineering participated in the plantation drive in and around the city of Bengaluru , on 27th July. The event witnessed active participation from students, faculty, and staff, all united by a common goal of enhancing the green cover in the region. Under the guidance of the management, a variety of native tree saplings ranging from guava trees to banyan trees were planted at carefully selected sites, ensuring long-term environmental benefits. Students from New Horizon College of Engineering planted 520 trees during the plantation drive. This noble endeavour not only enriched the city's biodiversity and improved air quality but also fostered a sense of environmental responsibility among the college community. New Horizon College of Engineering remains committed to such initiatives and looks forward to nurturing the growth of this green legacy in the years to come



KARGIL VIJAY DIWAS

The Kargil Vijay Diwas was successfully held on 26th July 2023 to honour the brave Indian Soldiers and their sacrifices during the 1999 war.

The Event started off with a speech and a group song followed by the lighting of candles by the honourable Chairman and President NHEI, Principal, Deans and other dignitaries. Illuminations of the candles brought out the patriotism in every individual present at the Kargil Diwas. It was a significant sight to see the students and the faculty to honour the Valour and bravery of the soldiers and the martyrs of the war.



“SAY NO TO RAGGING”- ESSAY WRITING EVENT

The Math Horizon and Genesis Clubs organised an essay writing competition on the account of Anti Ragging Week (12th August 2023 to 18th August 2023).

It was held on 4th August,2023.

The main aim of the event was to raise awareness about the harmful consequences of ragging on victims' physical and mental health. It also aimed to ensure a student- friendly environment at all times. The event also educated participants about the laws and regulations against ragging in educational institutions. The event was instrumental in highlighting the detrimental effects of ragging and fostering a safe, respectful and inclusive campus environment for all.



Seminars and Workshops



Industry Expert Talk on “The Integral Role of Mathematics in Real-Life Engineering ”

Department of Mathematics had organized an industry expert talk on “The Integral Role of Mathematics in Real-Life Engineering: Implementing Innovative Solutions” on Saturday, 12th August 2023 by Mr. Sandeep Lugani, Practice Head-Next Gen Enterprise Operations, Wipro Ltd, on all the on-going topics of Applied Mathematics for 63 first year B.E II semester students. The session was highly interactive and useful for students. The speaker briefed the students on application oriented mathematical knowledge and was appreciated by all participants.



Expert talk on “Advanced Energy Systems”

Date: 07-06-2023

Time: 2:30 PM To 4:00PM

Department of chemistry organized a guest Talk by Dr. Harish MNK, Professor, Department of Chemistry, Acharya Institute of Technology, Bangalore, on 7th June 2023 at FALCONRY seminar hall. Students of second semester B.E Chemistry cycle and Chemistry faculty members have attended the lecture. In his talk Dr. Harish has explained students about the Energy systems and types, zero emission technologies resulting less carbon print into atmosphere. He discussed about on going research technology which involves cobalt zinc phthalocyanine as a battery component and also on alternative sources like fuel cells. Around 200 students along with the faculty members have attended the talk.



Alumni Talk on 'Technology Demystified'

Date: 28.07.23

Falconry Seminar Hall, an inspiring and insightful talk was delivered by our esteemed alumnus, Krishnav Dave, at our college. Around 160 students attended the event. The speaker elucidated the intricacies of frontend and backend development, APIs, frameworks, etc. providing valuable insights into how technology operates. Controversial subjects in technology were thoughtfully discussed, encouraging students to think critically about the ethical implications of their work. The talk concluded with practical guidance on how students can excel in the field, emphasizing the importance of continuous learning and innovation.





FACULTY ACHIEVEMENT

DR. PRASANTH K.S



We are thrilled to announce the remarkable achievement of one of our esteemed faculty members, Dr. Prashanth K.S.

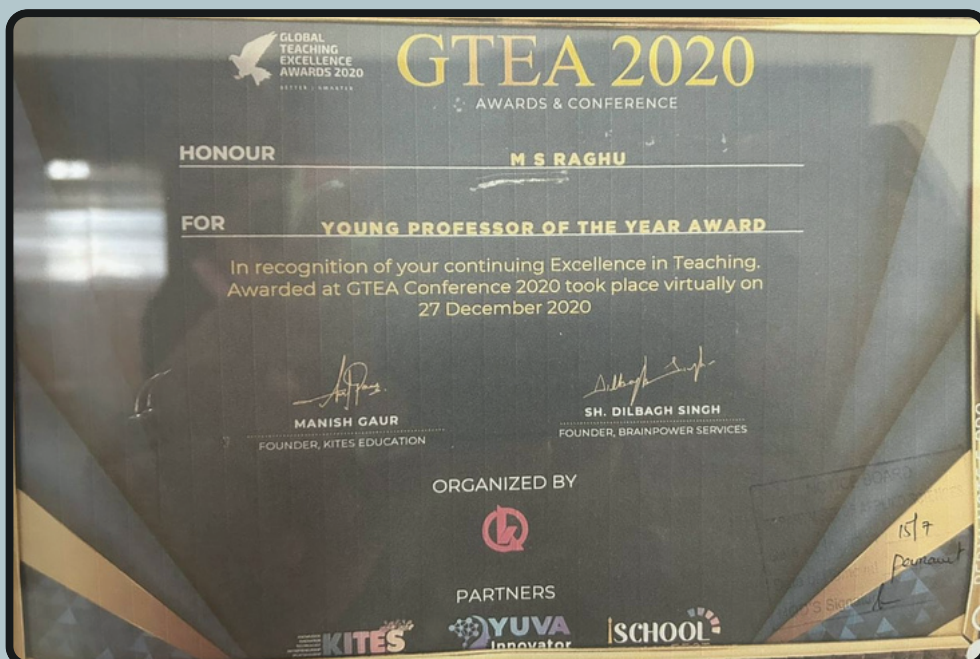
Dr. Prashanth has been awarded the prestigious VGST-RGS/F project by the Vision Group in Science and Technology, Government of Karnataka, in the year 2017-18. This project focuses on the fabrication of water-soluble polymer-based graphene oxide blended packaging materials with biocompatible, antibacterial, and antifungal properties, offering immense potential for food packaging applications. This recognition not only brings honor to Dr. Prashanth but also enhances the reputation and standing of our institution in the academic community, fostering a culture of research and innovation. Additionally, Dr. Prashanth has been awarded another significant project by VTU under the RGS 2021 Scheme, focusing on 2D nanomaterials for EMI applications. As a supportive academic community, let us all take pride in Dr. Prashanth's outstanding accomplishments and contributions to advancing research in our institution.



Dr. Raghu MS



We are delighted to highlight the outstanding achievements of Dr. Raghu M S, a distinguished member of our faculty. Dr. Raghu has demonstrated exceptional scholarly contributions with a remarkable portfolio of 125 publications, showcasing his commitment to advancing knowledge in his field. He has also served as a reviewer for numerous prestigious international journals, reflecting his expertise and recognition within the academic community. Furthermore, Dr. Raghu's innovative research has resulted in the filing of 3 patents and the publication of 3 books, underscoring his significant contributions to academia and beyond. Additionally, Dr. Raghu has been instrumental in mentoring the next generation of scholars, with 2 students currently pursuing their PhD under his guidance. Moreover, his leadership has been instrumental in successfully completing 2 funded projects, further cementing his reputation as a leading researcher in our institution. We extend our heartfelt congratulations to Dr. Raghu for his remarkable achievements and invaluable contributions to our academic community.



FUN CORNER

Can scientists invent a device that turns procrastination into productivity? Preferably before my sem deadlines.



**Why did the paper go to the doctor?
Because it was feeling a little torn up!**



**I'm light as a feather, yet the strongest person can't hold me for long.
What am I?**

- Echo

[P.S: Answer in the next newsletter, Keep waiting!!]

**Why did the teacher go to the beach?
Because she wanted to test the water and see if it was "shore" enough for her students!**

**I'm not alive, but I can grow.
I don't have lungs, but I need air.
I don't have a mouth, but water kills me.
What am I?
- Fire**

**Why did the biologist go to school?
Because she wanted to improve her "cell"f-esteem!**

**Why did the student bring a pillow to class during the semester?
Because they heard the lecture was going to be "in-depth" and they needed to stay awake!**

**Why did the math book look sad?
Because it had too many problems!**

MEET OUR TEAM



Dr. Anusuya Devi
HOD. prof. Applied Sciences



Dr. Prashanth KK
Asst. Prof. Mathematics



Likitha K
B.E 1st Year



Priyanka S Reddy
B.E 1st Year





thank  you