NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College affiliated to VTU, Accredited by by NBA and accredited by NAAC with A grade

Report on Induction programme for 1st year BE 2020-21 batch, Even semester

As per the Honorable VTU Vice Chancellors' order dated 27.04.2021, New Horizon College of Engineering has conducted an induction programme session- II for first year BE students from 30th April 2021 to 12th May 2021. The programme was conducted through virtual mode including various events. The List of the events conducted are as follows.

Date	Event	Resource person	Virtual platform used
30.04.21	An overview of 1st year even semester academics	Dr.Anusuya HOD- Chemistry Dr.Revathi HOD - Physics	ZOOM
03.05.21	Language Proficiency Modules	Dr.Sowmya Narayanan and team Dept of Life Skills.	ZOOM
04.05.21	Career guidance	Dept of HRD	ZOOM
05.05.21	Riding the second wave of Covid- 19 Vaccination awareness program	Dr.ShivaKumar Gowda, Chief Covid officer, Victoria Hospital, Bangalore.	ZOOM
06.05.21	Self awareness	Dept of Professional Counseling	ZOOM
07.05.21	Stress management through YOGA and Pranayama	Mr.Manjeesh TG MSc in Yoga Ms.Suma MSc in Yoga	ZOOM
10.05.21	The Binge Quiz contest (Web series, movies, animations, poster making)	Student clubs	ZOOM
11.05.21	Scope of the various Engineering branches	Heads of respective departments	ZOOM

12.05.21	Social Cognition	Dept of Professional Counseling.	ZOOM

Detailed Report

1. **An over view of first year BE Even Semester academics:** On 30th May 2021, Dr Anusuya HOD chemistry for chemistry cycle students and Dr. Revathi, HOD Physics for physics cycle students have conducted an orientation program for first year students. In which HODs have briefed about the courses and credit structure of even sem courses. They have discussed about the vertical progression and examinations related things. Clarified many doubts of students. Explained students about the current situation of Covid 19 second wave and advised them to focus on online classes. Mentors list for even sem has been release and told to take the help of mentors for any academics related issues.
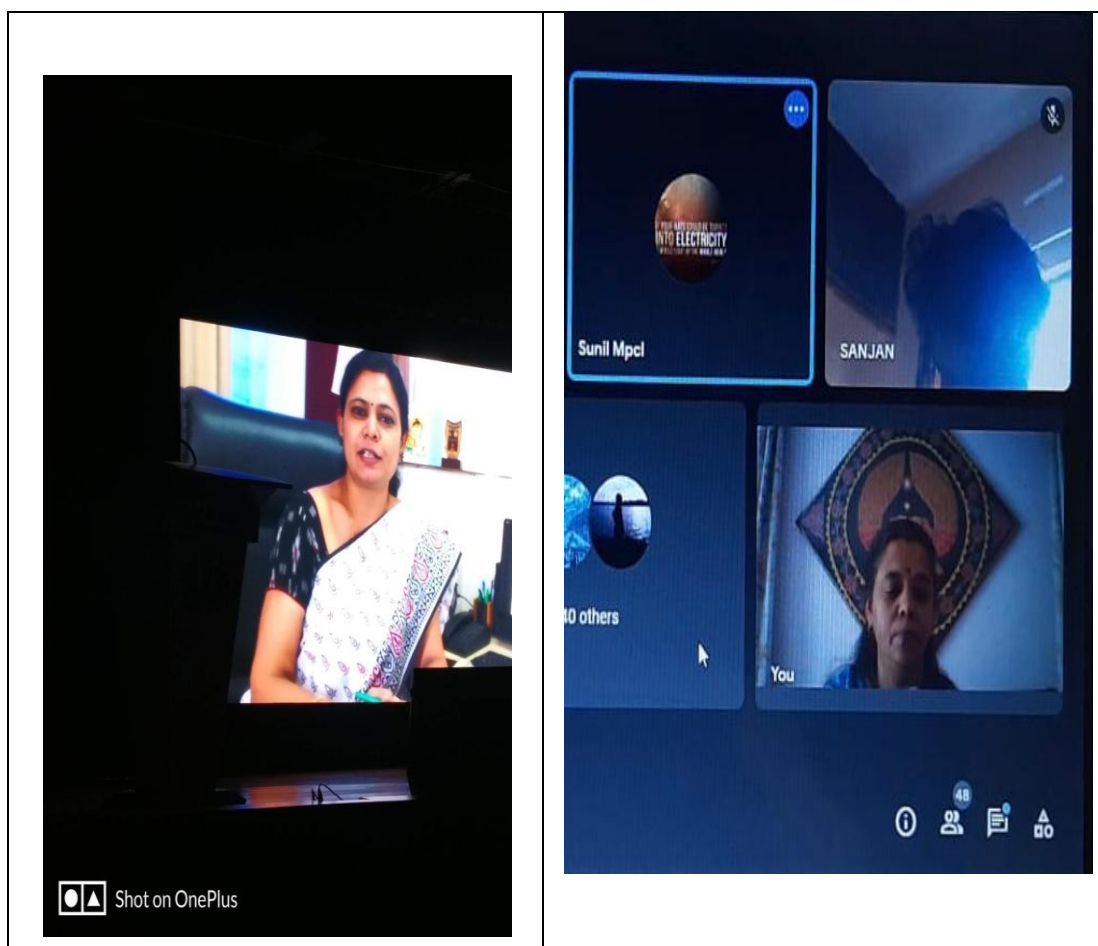
2. Language Proficiency Modules: On 3rd May 2021 HOD and faculty members of Life skills and lifelong learning department have conducted a session through online on proficiency modules. Prof Gangadhara Murthy, began the session by emphasizing the importance of life skills and took us on the road of success. He explained clearly how the students will get transformed during their stay in the campus for 4 years which will decide their future. He went on to tell about the future which will be perfect if we use the key of sharpened life skills. His thoughts were precious illustrated through a video for the students to get the right idea about the program.

HOD Dr. Sowmya Narayanan with us on that day. She gave us an overall view of the program and explained how significant the skills are and how they will help us in different life's situations. It was very informative and motivating..

Prof Murthy again came up and conducted a quiz and involved many students who answered enthusiastically.

Then Prof Ramesh pitched in and spoke about the training programme at length, mainly concentrated how one can improve his communication skills without giving up. He set an example by speaking with zeal and enthusiasm. Conducted a group activity involving many students and made them become aware of the teaching methods in the class room.

Prof Suneetha, came up with a lot of ideas and illustrations to help the students understand the approach of education in life skills. She shared her industry experience and highlighted the campus interviews and the industry expectations. It was very useful session for the beginners to listen to a well experienced person like her who has been the bridge for the campus and the industry.

Prof Devranjan Chatterjee from his part, made the students understand how a typical class will be by asking many open questions to the students and encouraging them to answer. With his experience with the senior students, he brought out his points in an understandable way. His talk was very practical, precise and concise. He brought out some clear understanding of innovative ideas, creative and critical thinking and the desire to achieve something in life.

Finally there was some recorded feedback screened to let the students know what the stake holders had to say about the training in our college. They shared the impact of the life skills

training in their lives and how they could develop the insight to take the responsibility of their life and career to become successful.

3. Career guidance:

The first year BE students of New Horizon College of Engineering had the opportunity to attend Career Guidance Program held virtually on 4thMay 2021.The esteemed guests were delighted to be on the programme to interact with the young minds and share their experiences in the real life scenario.

The Chief guests for the event were John Puchathali, CEO, Compas Now Mr. Meghashyam Karanam,Co-Founder and CEO Megdap Innovation Labs. Also, present was the Principal -Dr Manjunatha and the Prof. Gurucharan Singh, Executive Director – Training & Placementsof New Horizon College of Engineering.Dr Kavithacompered the formal event in which the guests were all welcomed on the video-conferencing platform.

Dr.Manjunatha took the opportunity of welcoming the guests and thanking them for their decision to spend time with the students of the college. He also emphasized on the fact that the getting admission into Professional course is just the beginning for the life defining moments and students should not get digitally distracted with the availability of the gadgets 24/7.He cautioned that just earning an engineering degree isn't the same as what it was many years back and urged students to think innovatively.

Prof. Gurucharan Singh spoke to the students telling them of the importance of setting up personal goals in life and how it helps make their vision for the future clearer. He reiterated upon honing the soft skills and the corporate expectations of the student readiness on the employability index.Soon after the formal event, began the interactive session which brought forth speakers to give a talk on diverse topics ranging from Internships, Entrepreneurship , Higher education and Start up ecosystem

Mr. John Puchathali gave detailed insights on how to identify a specialization and map the competences required for the successful career. He emphasized importance of the future need for competences in the workplace / company that are required in the Industry for a successful career and how the competency Assessment can be helpful for students in order to select a specialization and build a career. The speaker's holistic approach gave a 360 degree picture of the areas in which students need to improve to lead a successful life both on personal as well as professional front.
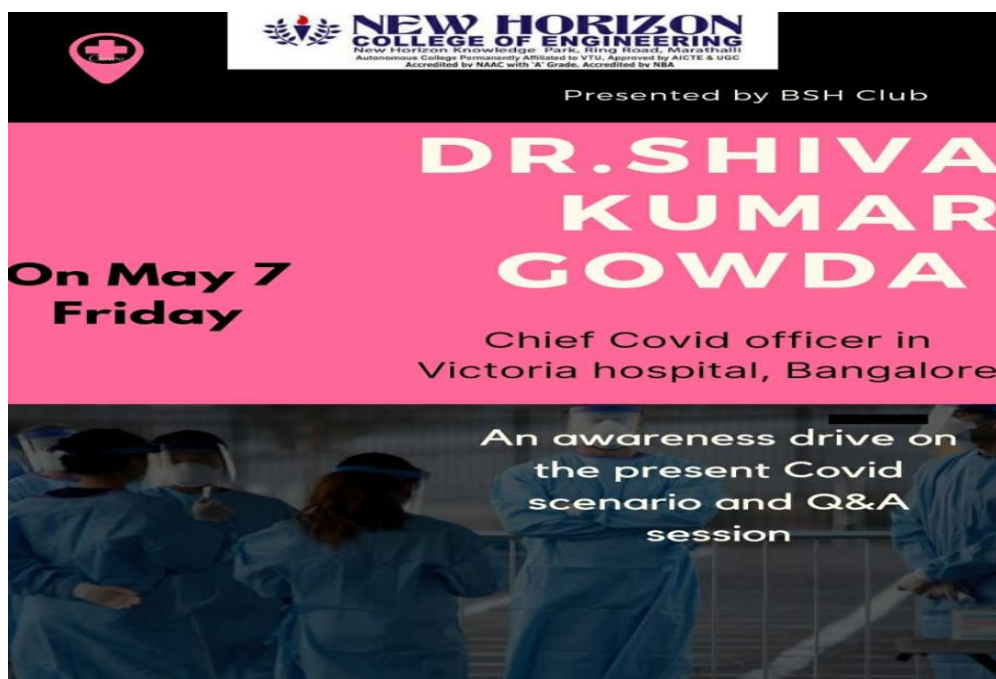
Mr Meghashyam Karanam spoke about the internships and how it is possible to work in diverse companies with different work culture. He also mentioned a number of companies that have slots spaced out for Internships in Bangalore and remote internships available on the different portals.He invigorated students to have the motto of 'being job creators than job seekers' and enlightened students on a path besides jobs.

Overall the programme helped the students to have a better understanding of the opportunities that could be offered by Internships, Entrepreneurship and Start up ecosystem.

4. Riding the second wave of Covid- 19, Vaccination awareness program

The global impact of Covid 19 epidemic is huge and devastating with many mutations of virus itself and new challenges arising henceforth. As like everyone students also facing unprecedented challenges and questions as they grapple with their respective futures amid the ongoing fallout of the pandemic.

Keeping in mind the Prioritization of a Safe Return to Normal, we Department of Basic Sciences and Humanities organised this awareness program for students during this period where whole country is trying to cope with the ongoing 2nd wave of COVID-19. The program was arranged through online zoom platform on 7th May 2021 from 3pm to 4pm. This Session was addressed by a renowned doctor Dr. Shiva Kumar Gowda who is also the Chief COVID Officer at Victoria Hospital, Bengaluru in the presence of HODs of different departments, Teachers & Students.

Session started with the welcome address and introduction of the speaker. Then the session was handed over to Dr. Shiva Kumar Gowda where he setup the talk by explaining the audience about Covid-19 pandemic, its impact and a detailed explanation of, as citizens what precautions and care must be taken in order to protect oneself and the surrounding people. Then he also described about current measures & guidelines laid down by the Central & State Govt.(s).

During the session Dr. Shiva Kumar Gowda also emphasised on the importance of inoculation and the efforts taken by the Govts and the front-line medical warriors to educate the citizens. In brief he also explained how vaccination helps the individual and as whole the society to fight Covid-19.

During the interactive Q & A session many doubts raised by the audience: both students and faculties were addressedby Dr. Gowda about Vaccines like should we take it or not? Why should we take it? How can we prevent ourselves from contracting COVID? etc.

Finally, Dr. Gowda concluded his talk by providing information about different things we should take care of and how to control our Physical, Mental & Social health in an effective manner.

At last, but not the least, Vote of Thanks was presented and ultimately saluting him as the frontline COVID Warrior for us.
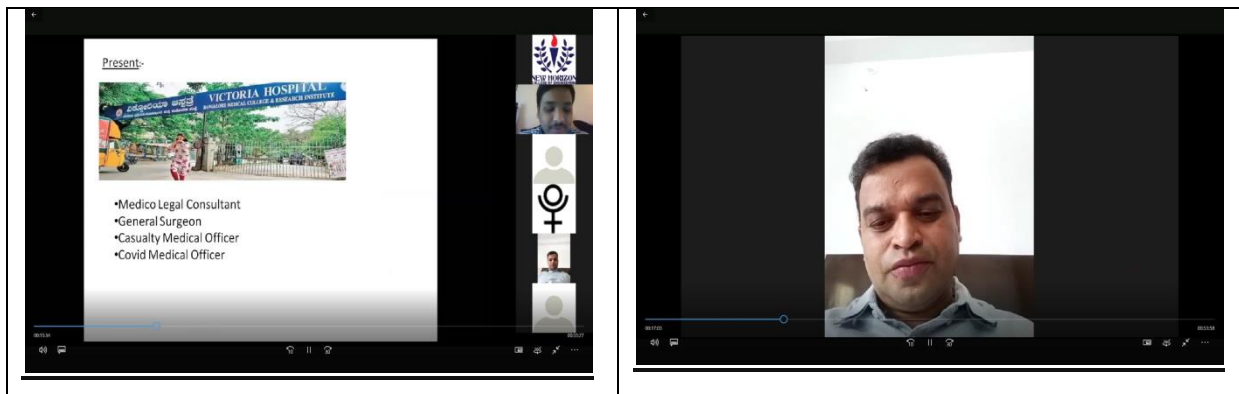
5. SELF AWARENESS

The department of counseling conducted welcome back session on "Self Awareness" for the students of BSH department (Chemistry Cycle and Physics Cycle) on 06/05/2021 by their respective counselors. Students were grouped according to their sections and their respective counselor conducted the sessions.   A detailed report of the sessions is been given below.

Date	Department	Topic	Participants Attended	Conducted By
06/05/2021	BSH - Physics Cycle	Self Awareness	480	Ms. Bhavtarini . M
06/05/2021	BSH -Chemistry Cycle	Self Awareness	550	Ms. Rosina Jacob

Objective:-

Enable students to understand and see their own self clearly and objectively through reflection and introspection.
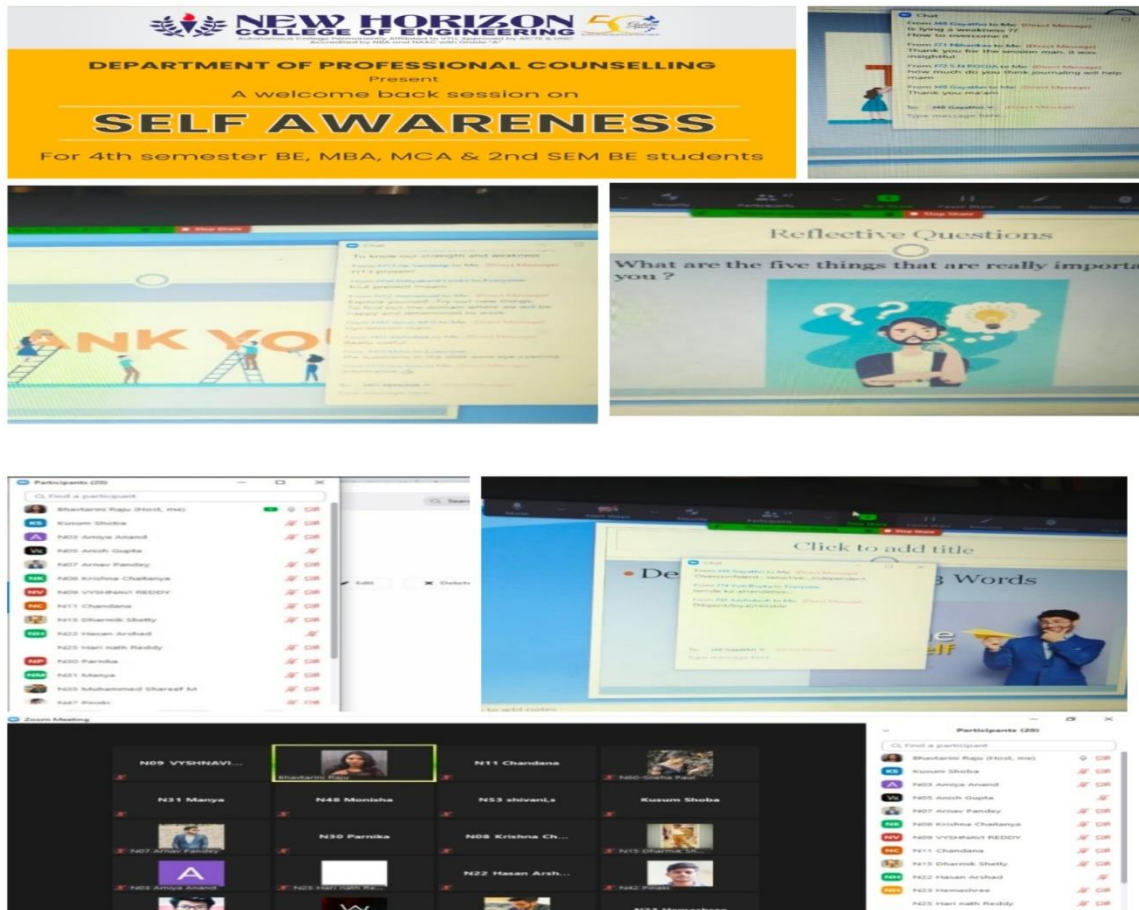
Topics covered under the session:-

- ➢ Self Awareness
- ➢ Self reflection questions on self awareness
- ➢ Self- Awareness Assessment Test- (DISC)
- ➢ Barriers to Self-Awareness
- ➢ Importance of being Self- Aware
- ➢ Self-Esteem
- ➢ Ways to Cultivate Self-Awareness

Session Summary:

The session was conducted online using the zoom platform. The topic of the session was Self-Awareness which was covered predominantly. The main objective of conducting this session was to help students to understand the concept of self-awareness and understand its importance. They were given self-reflection questions and an assessment tool to measure

their self-awareness, as well as understand their strengths, weakness, emotions, wants and desires. They were also briefed on self- esteem and self-confidence and ways to cultivate self-awareness.

The sessions were interactive and received a positive response from the participants.

6. Stress management through YOGA and Pranayama

Dept of BSH has organized online YOGA session with an internal YOGA expert Ms. Suma T who is Asst professor in mathematics as well as she completed MSc in Yoga. We have also invited an external YOGA expert Mr.Manjesh . Both have taught students about the stress management and Pranayama techniques through virtual mode. Following topics were taught to students and shared a video link for the regular practice.

Yoga Module: Surya Namaskara ,Trikonasana, vrikshasana, Bhujangasana, Shashankasana, Nadishuddi pranayama, Brahmari pranayama and Om meditation.

Why Yoga for Stress Relief?

Life can be stressful. For starters, there's your busy schedule — waking up super early for school, studying late at night for tests, juggling sports practice, homework, and meals. It's a lot to balance!

Everyday issues can add emotional stress, too — counseling a friend through a breakup, regretting a disagreement with a parent, weighing an important decision, or stressing over whether you'll make final cuts for the varsity team. With lots on your mind, it's easy to feel stressed.

There are many different ways to cope with stress. Talking with friends, exercising, and seeing a school counselor are just a few. Yoga can help reduce stress because it promotes relaxation, which is the natural opposite of stress. Yoga can benefit three aspects of ourselves that are often affected by stress: our body, mind, and breathing.

You don't have to wait to feel stressed out to do yoga, and you shouldn't! People who do a little bit of yoga each day often find they're better able to handle things when life gets a little crazy. Practicing yoga builds your ability to calm, focus, balance, and relax yourself.
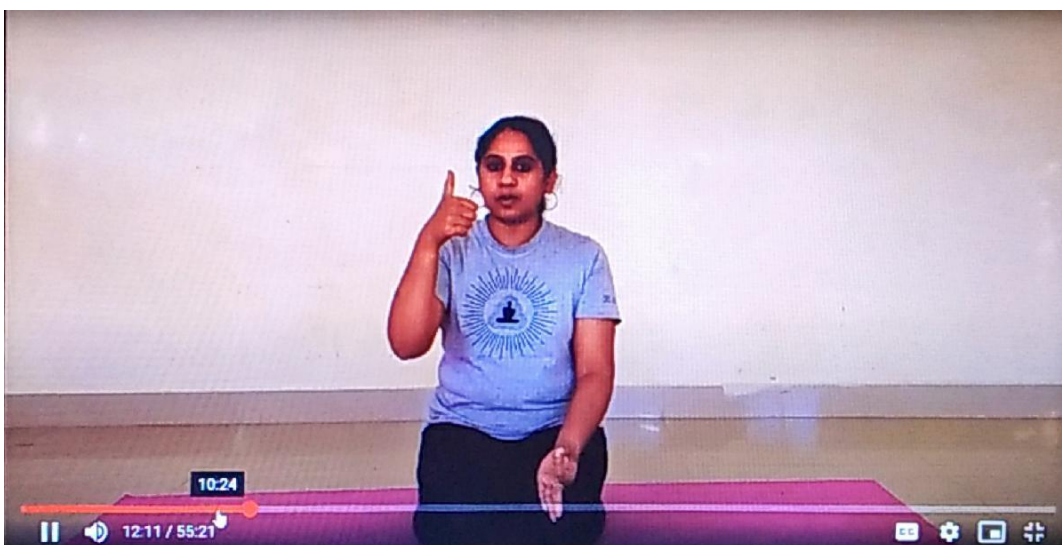
When to Try Yoga?

Before a test: Do easy neck and shoulder rolls right at your desk to relieve tense muscles in your neck, shoulders, and back. Also try squeezing and relaxing your fingers and hands. These exercises can take as little as 30 seconds, and can be repeated as often as you need!

While studying: Try a few simple yoga moves to help relax any areas that may have become tense while studying. Neck and shoulder rolls can release tension in your back and shoulders. Forward folds and twists will relieve lower back strain. Give your face a mini-massage to help loosen up a tense jaw. Balancing poses, like tree pose, can help focus your energy so you can concentrate on what you need to do!

Before bed: Do a few yoga stretches before bed to help you relax — especially if you have a lot on your mind. Poses where you fold forward, like child's pose, tend to be calming. They allow you to tune out the rest of the world and feel quiet and peaceful. Stay in a forward fold for 3 or 4 full, slowing breaths, and allow your body and mind to relax.

Videolink : https://drive.google.com/file/d/1K9RB6FQMmBsAVAjUWsNUO28uzSX60OD_/view?usp=drive_web

7. The Binge Quiz contest

Math Horizon and Genesis clubs of Department of Basic Sciences and Humanities Conducted an online event "The binge watch Quiz" for 1st year B.E students on 10th may 2021 through zoom link. We had 100 enthusiastic members who participated in all event categories.

This event was focused to target four different categories - Animation, Movies, Web series and Poster making. From 100 participants, we selected 10 members as winners. In Each title, 3 members were declared as Title winners and one person in poster making category.

The event was successfully conducted by the students in BSH club and Club coordinators. Our college provided the official zoom link with 500 students accommodation with unlimited hours.

Link for movies:

https://docs.google.com/forms/d/e/1FAIpQLSefEtEmJwJVnRzgpY47dQKkjIe32xt3IrpddlhSS5_zdxD_9g/viewform?usp=sf_link

Link for web series:

https://docs.google.com/forms/d/e/1FAIpQLSfN2pGu85OErtmPl2dTfJkS2MNmKJZ7t-xkW6G7ka1Mnc1Aqg/viewform?usp=sf_link

Link for Animations:

https://docs.google.com/forms/d/e/1FAIpQLScH39TlnGU5y35Dwnc5pbqMJp6BU185EpmzxnXJZwmwg2P-mA/viewform?usp=sf_link

8. Scope of the various Engineering branches:

In this session, the Heads of the respective engineering branches have spoken about the scope of their branches and its need in the present society.

To start with **Dr. M. S. Ganesh Prasad,** HoD Department of Mechanical Engineering has briefed the importance of mechanical engineering branch. He mentioned that, the essence of engineering is problem solving. Mechanical engineering combines creativity, knowledge and analytical tools to complete the difficult task of shaping an idea into reality.

Mechanical engineering is one of the broadest engineering disciplines. Mechanical engineers design, develop, build, and test. Mechanical engineers produce specifications for, design, develop, manufacture and install new or modified mechanical components or systems.

Mechanical engineers need to be technically minded, able to demonstrate numerical and scientific ability and have problem-solving skills. Mechanical engineers produce specifications for, design, develop, manufacture and install new or modified mechanical components or systems. Mechanical engineers need to be technically minded, able to demonstrate numerical and scientific ability and have problem-solving skills. Mechanical engineers produce specifications for, design, develop, manufacture and install new or modified mechanical components or systems. Mechanical engineers need to be technically minded, able to demonstrate numerical and scientific ability and have problem-solving skills.

Dr. Shridhar Kurse, Professor & Head has explained the significance of automotive engineering. He mentioned that, the study of automotive engineering to design, develop, fabricate, and test vehicles or vehicle components from the concept stage to production stage. Production, development, and manufacturing are the three major functions in this field. Automobile Engineering, also known as Automotive Engineering, is a field concerned with vehicle design, development, production, and safety testing. Automobile Engineers work closely with other engineers to improve automotive technical performance, vehicle aesthetics, and automotive software.

He also mentioned that, the important topics to be learnt in automobile branch are Fluid Mechanics and Machinery, Manufacturing Methods, Strength of Materials,

Engineering Thermodynamics. Heat Transfer and Combustion, Automotive Petrol Engines, Engineering Analysis and Numerical Methods and Automotive Design Engines. Many people would say that the automobile is one of the greatest and most important inventions in human history. The automobile changed many things in the United States. The automobile gave people more personal freedom and access to jobs and services. It led to development of better roads and transportation.

Dr. P. S. Niranjan, Professor & Head mentioned about the significance of civil engineering department and the contribution of civil engineers to the society. He clearly described the responsibility of civil engineers for maintaining the overall safety of society in a number of ways including rural engineering. From constructing highways and buildings to bridges and tunnels, the responsibilities of civil engineers are many. Civil engineers are responsible for planning and overseeing different construction efforts and apply civil engineering principles to ensure that the constructed structures are safe and sturdy. Civil engineer is responsible for analyzing different factors regarding a construction project. They analyze the site of the construction and the surrounding area. The process includes search and investigation, verifying whether that location is feasible for construction purposes or not. Civil engineers also analyse the entire construction work that needs to be completed at the site. They have to analyse every step of the processes required for completing the construction job. A civil engineer also needs to use different figures, equation and applications to ensure that the processes are been implemented accurately. They need to conduct a number of functions such as conducting chemical testing using various applications, use a drafting and design software throughout the project, and conducting electrical testing of devices and equipment. They also need to be aware of land surveying techniques and the metric system.

Dr. Sanjeev Sharma, Professor & Head, evidently showed that, the most important benefits that Electronics and Communication branch provides is freedom. He further elaborated that, The freedom to drift between hardware field and software field. Furthermore this is also the reason that a lot of industries choose to prefer Electronics and Communications engineers over other engineers. An electronics and communication engineer can work in aviation and avionics, consumer electronics, electricity plant, manufacturing, distribution, communication & telecommunication, computer application, radio &

television, analytical equipment manufacturing and offshore industries. He mentioned that, the main fields of societal importance are Digital and Analog VLSI Design, Embedded Systems, Computer Networking and System Security, Wireless networks/Telecom, Digital signal processing applications, PLC/SCADA/DCS, PCB Designing.

Today, technology is growing at a rapid pace. In the coming future there is bound to be huge demand for competent engineers in electronic industry to cope this demand in technology. These engineers would be involved in creating and sustaining cutting edge technology to stay ahead in competition. An electronic engineer can find job in Consumer electronics manufacturing organization, Telecommunication industry, IT industries, Health care equipment manufacturing industry, Mobile communication, Internet technologies, Power Electronics, and Other industries like steel, petroleum and chemical industry, directing control and testing production process.

Dr. Mahesh M. Professor & Head, Spoke about the importance of Electrical engineers, the department of electrical engineering and overall wellbeing of the human life. He mentioned that, electrical engineers work at the forefront of practical technology, improving the devices and systems we use every day. From solar-energy systems to mobile phones, we innovate to meet society's communication, tech and energy needs. From light bulbs and television to cell phones and GPS, modern advances in electrical engineering have illuminated, informed, and connected the world. But did you know electrical engineering can be traced back to long before Thomas Edison? Discover the many ways electrical engineering has been shaping society for thousands of years. Though it is responsible for the safety of a person or even the machine itself, this field isn't thoroughly understood and hence mostly neglected. In Plastic Processing Machineries, it basically handles Power Distribution, Protection and Automation. Electrical Engineers work in a wide range of industries and the skills required are likewise variable. Human Body is a machine and the Nervous system is its Electrical Engineering. Field of engineering dealing with study and application of Electricity, Electronics and Electromagnetism. Importance Of Electrical Engineering In Machineries

Prof. B. Rajalakshmi HoD, Department of Computer Science and Engineering mentioned that, been living amidst the revolution powered by computers, our choices, way of living and communication is affected in all respects. The revolution

can easily be stated as Communication, Transportation, Medicine, and Entertainment Revolution. Computer Science is no doubt an exciting and extraordinary creative discipline propelling students towards innovation and technology. Studying Computer Science is much more than just logic, algorithms, abstraction, and computability. However, it expands to software engineering, networking, distributed systems, information retrieval, programming languages and many more.

Why Computer Science in Demand - Many students in India and abroad choose to study Computer Science because of the bright career prospects. Students studying this discipline learn technical skills such as programming, problem-solving, leadership, and many more. From schools to hospitals and financial companies, computer science has its role everywhere. With the high demand of computer science and technology in the industry, B. E. Computer Science and Engineering courses have gained potential which land students in various positions- Systems Analyst, Web Developer, Finance Programmer, Software Engineer, Product Manager, Game Developer, and many more.Studying computer science from a renowned college comes with a range of opportunities for the students such as agile learning, campus placement, industry visits, guest lectures, and much more. Industry association is the main highlight of these programmes including regular interaction with the industry experts in the specialized labs.**Dr. R. J. Anandhi,** Professor & Head – Information science and Engineering. She has clearly explained the value for information science engineers and their contribution to the technological advancement. She mentioned that, students of information science learn about computers, but they also study people. Information science majors learn how to create systems for finding and storing data. Students look at the big picture of information exchange and learn how people interact with, use, and sell information. The Information Science and Engineering professionals will be able to design, create and implement software applications to solve real-world problems. They can figure out how to evaluate the ethical, legitimate, proficient and social standards of engineering knowledge and practices. "Information science is the science and practice dealing with the effective collection, storage, retrieval, and use of information. It is concerned with recordable information and knowledge, and the technologies and related services that facilitate their management and use.

Students of information science learn about computers, but they also study people. Information science majors learn how to create systems for finding and storing data. Students look at the big picture of information exchange and learn how people interact with, use, and sell information. Being an information Science engineer they have job opportunities as, Systems analyst, Systems administrator, Business analyst, Network architect, Web developer, Technical writer, Information security analyst, Database administrator.

AI engineers are in high demand and for good reason. Artificial intelligence has seemingly endless potential to improve and simplify tasks commonly done by humans, including speech recognition, image processing, business process management, and even the diagnosis of disease. Automation. Benefits of artificial intelligence are, Smart Decision Making, Enhanced Customer Experience, Medical Advances, Research and Data Analysis, Solving Complex Problems, Business Continuity, Managing Repetitive Tasks. Machine learning and electrical engineering professionals leverage AI to build and optimize systems and also provide AI technology with new data inputs for interpretation. For example, engineers build systems of connected sensors and cameras that ensure that an autonomous vehicle's AI can "see" the environment. Simply put, machine learning allows the user to feed a computer algorithm an immense amount of data and have the computer analyze and make data-driven recommendations and decisions based on only the input data. Following are the advantages of Machine learning are, Easy identifies trends and patterns. Machine Learning can review large volumes of data and discover specific trends and patterns that would not be apparent to humans, No human intervention needed (automation), Continuous Improvement, Handling multi-dimensional and multi-variety data and Wide Applications.

9. Social Cognition:

The department of counseling conducted a session on "Social Cognition" for the students of BSH department on 12/05/2021. Students were grouped according to their sections and their respective counselor conducted the sessions.   A detailed report of the sessions is been given below.

Objectives:-

The objective of this session was to help student to learn the concept Social Cognition and gain the ability to understand why people behave in a specific way.

Topics Covered under the session:-

- ➢ Social Cognition
- ➢ Schemas
- ➢ Types of schemas
- ➢ Heuristics
- ➢ Types of heuristics
- ➢ Heuristics techniques of problem solving
- ➢ Errors in social cognition
- ➢ Planning fallacy
- ➢ Negative bias
- ➢ Magical Thinking
- ➢ Counterfactual tendency

Session Summary:-

The session was conducted online using the zoom platform. The topic of the session was Social Cognition which was covered predominantly. The main objective of conducting this session was to help students to understand the concept of social cognition and its importance. Help students to understand why people behave in a specific way. Understanding the structure of social acceptance, relationship formation and maintenance. Help students to focus more on positivity by which one can stay away from negativity bias. Also train students to solve problems and make judgments quickly and efficiently. The sessions were interactive and received a positive response from the participants.

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Report on Induction programme for 1st year BE 2020-21 batch,

ODD semester

As per the Honorable VTU Vice Chancellors' order dated 08th December 2020, New Horizon College of Engineering has conducted an induction programme session- I for first year BE students from 14th December 2020 to 19th December 2020. The programme was conducted through virtual mode including various events. The List of the events conducted are as follows.

Date	Morning Session	After noon Session	Resource person
14.12.2020	Orientation Program: An overview of 1st year Odd semester academics Motivational talk – Madan Mohan- President Goldman Sachs	Academic Guidelines Library & Information Centre Orientation	Dr.Anusuya HOD- Chemistry Dr.Revathi HOD – Physics Dr.Anitha – HOD Library & Information Centre
15.12.2020	Language Proficiency Modules	Life Skills and Life Long Learning	Dr.Sowmya Narayanan and team Dept of Life Skills.
16.12.2020	Stress management through YOGA and Pranayama	Stress management through YOGA and Pranayama	Dr. Suma T
17.12.2020	Universal Human Values	Universal Human Values	Dr. Aravinda
18.12.2020	Awareness on Covid -19 and SOP	Literary Activities, Extracurricular club introduction, Places to visit Bangalore	Dr. Ambika, Airforce Hospital Club Coordinators
19.12.2020	Self awareness	Scope of the various Engineering branches	Dept of Professional Counseling Heads of respective departments

Detailed Report

Orientation program: On 14th December 2020, we had the orientation program for I year BE students through online mode. Dr. Anusuya – HOD chemistry gave the welcome speech following which Principal Dr. Manjunatha gave the presidential address. The overall view of first year academics was explained by Dr. Anusuya. Dr. Revathi, HOD Physics conducted an orientation program regarding the academic guidelines. She explained the details regarding credit system, CBCS, academic rules and regulations, condition for vertical progression, award of degree, rank, activity points, Honors degree and code of conduct to be followed. Dr. Anitha, Head- Library and Information centre gave the details about the facilities, usage and rules to be followed in Library and Information centre.

Motivational talk: Mr. Madam Mohan, Vice President, Goldman Sachs was invited on 14th December 2020, to give a motivational talk to the students of I year BE. He spoke to the students and told them to develop the attitude to learn different things, never say impossible to any activity, channelize their energy in various useful activities, strengthen their resume and credentials right from the I year of Engineering. He gave them the various techniques to make themselves suitable for the changing environment. Also He insisted the students to have high consciousness towards the society they belong to and develop belongingness to our great Nation.
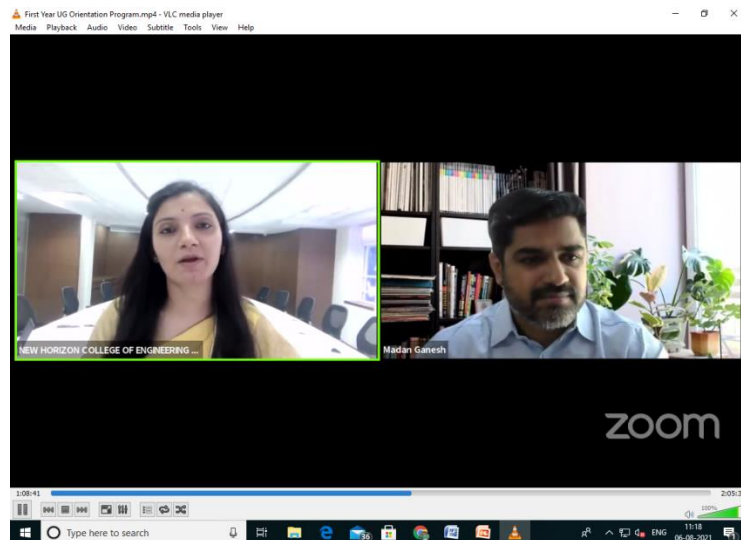
Language Proficiency Modules: On 15th December 2020, HOD and faculty members of Life skills and lifelong learning department have conducted a session through online on proficiency modules. Prof Gangadhara Murthy, began the session by emphasizing the importance of life skills and took us on the road of success. He explained clearly how the students will get transformed during their stay in the campus for 4 years which will decide their future. He went on to tell about the future which will be perfect if we use the key of sharpened life skills. His thoughts were precious illustrated through a video for the students to get the right idea about the program.

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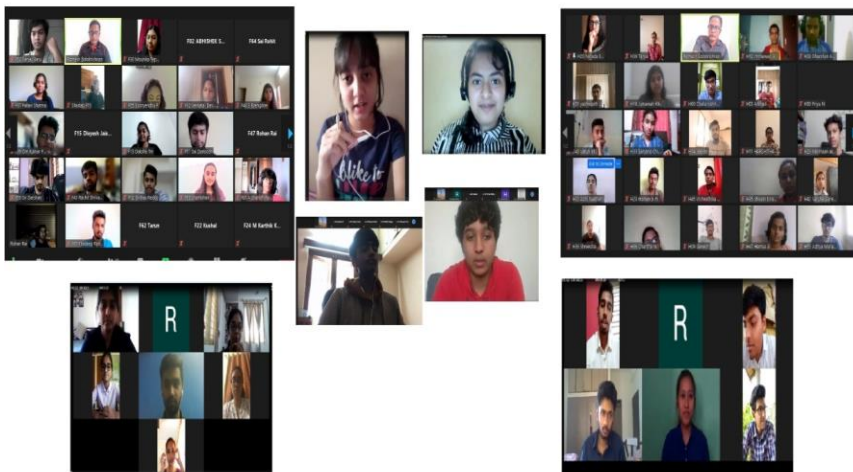Prof Murthy again came up and conducted a quiz and involved many students who answered enthusiastically.

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beginners to listen to a well experienced person like her who has been the bridge for the campus and the industry.

Prof Devranjan Chatterjee from his part, made the students understand how a typical class will be by asking many open questions to the students and encouraging them to answer. With his experience with the senior students, he brought out his points in an understandable way. His talk was very practical, precise and concise. He brought out some clear understanding of innovative ideas, creative and critical thinking and the desire to achieve something in life.

Finally there was some recorded feedback screened to let the students know what the stake holders had to say about the training in our college. They shared the impact of the life skills training in their lives and how they could develop the insight to take the responsibility of their life and career to become successful.

Stress management through YOGA and Pranayama

Dept of BSH has organized online YOGA session with an internal YOGA expert Ms. Suma T who is Asst professor in mathematics as well as she completed MSc in Yoga. The program was organized on 16th December 2020. Dr. Sumaas taught students about the stress management and Pranayama techniques through virtual mode. Following topics were taught to students and shared a video link for the regular practice.

Yoga Module: Surya Namaskara ,Trikonasana, vrikshasana, Bhujangasana, Shashankasana, Nadishuddi pranayama, Brahmari pranayama and Om meditation.

Why Yoga for Stress Relief?

Life can be stressful. For starters, there's your busy schedule — waking up super early for school, studying late at night for tests, juggling sports practice, homework, and meals. It's a lot to balance!

Everyday issues can add emotional stress, too — counseling a friend through a breakup, regretting a disagreement with a parent, weighing an important decision, or stressing over whether you'll make final cuts for the varsity team. With lots on your mind, it's easy to feel stressed.

There are many different ways to cope with stress. Talking with friends, exercising, and seeing a school counselor are just a few. Yoga can help reduce stress because it promotes relaxation, which is the natural opposite of stress. Yoga can benefit three aspects of ourselves that are often affected by stress: our body, mind, and breathing.

You don't have to wait to feel stressed out to do yoga, and you shouldn't! People who do a little bit of yoga each day often find they're better able to handle things when life gets a little crazy. Practicing yoga builds your ability to calm, focus, balance, and relax yourself.
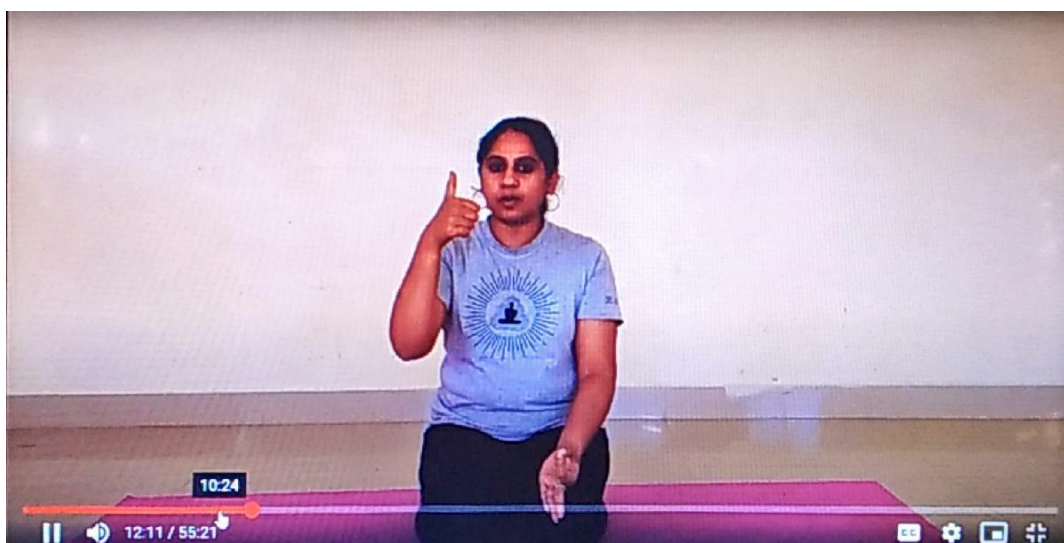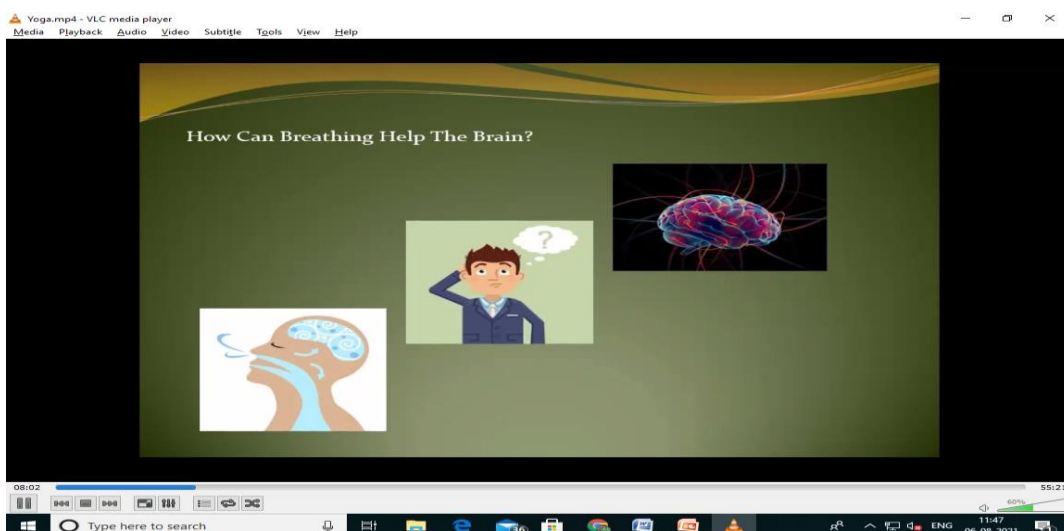
When to Try Yoga?

Before a test: Do easy neck and shoulder rolls right at your desk to relieve tense muscles in your neck, shoulders, and back. Also try squeezing and relaxing your fingers and hands. These exercises can take as little as 30 seconds, and can be repeated as often as you need!

While studying: Try a few simple yoga moves to help relax any areas that may have become tense while studying. Neck and shoulder rolls can release tension in your back and shoulders. Forward folds and twists will relieve lower back strain. Give your face a mini-massage to help loosen up a tense jaw. Balancing poses, like tree pose, can help focus your energy so you can concentrate on what you need to do!

Before bed: Do a few yoga stretches before bed to help you relax — especially if you have a lot on your mind. Poses where you fold forward, like child's pose, tend to be calming. They allow you to tune out the rest of the world and feel quiet and peaceful. Stay in a forward fold for 3 or 4 full, slowing breaths, and allow your body and mind to relax.

Videolink   :

https://drive.google.com/file/d/1K9RB6FQMmBsAVAjUWsNUO28uzSX60OD_/view?usp=drive_web

Universal Human Values: We organized a session on Universal Human Values for the students of I year BE . Dr. Aravinda K , Professor , Department of Electronics and Communication was invited to enlighten the students on the given topic. He covered various topics which include the mental and physical needs of Human beign, peer pressure, self confidence, relationships, gratitude, cooperation, team work, society, honesty, aspirations and family expectations. The students participated very well in the program and the sessions were carried out through online mode. More discussions were encouraged and it was a wonderful session which was extended for the whole day on 17th December 2020.
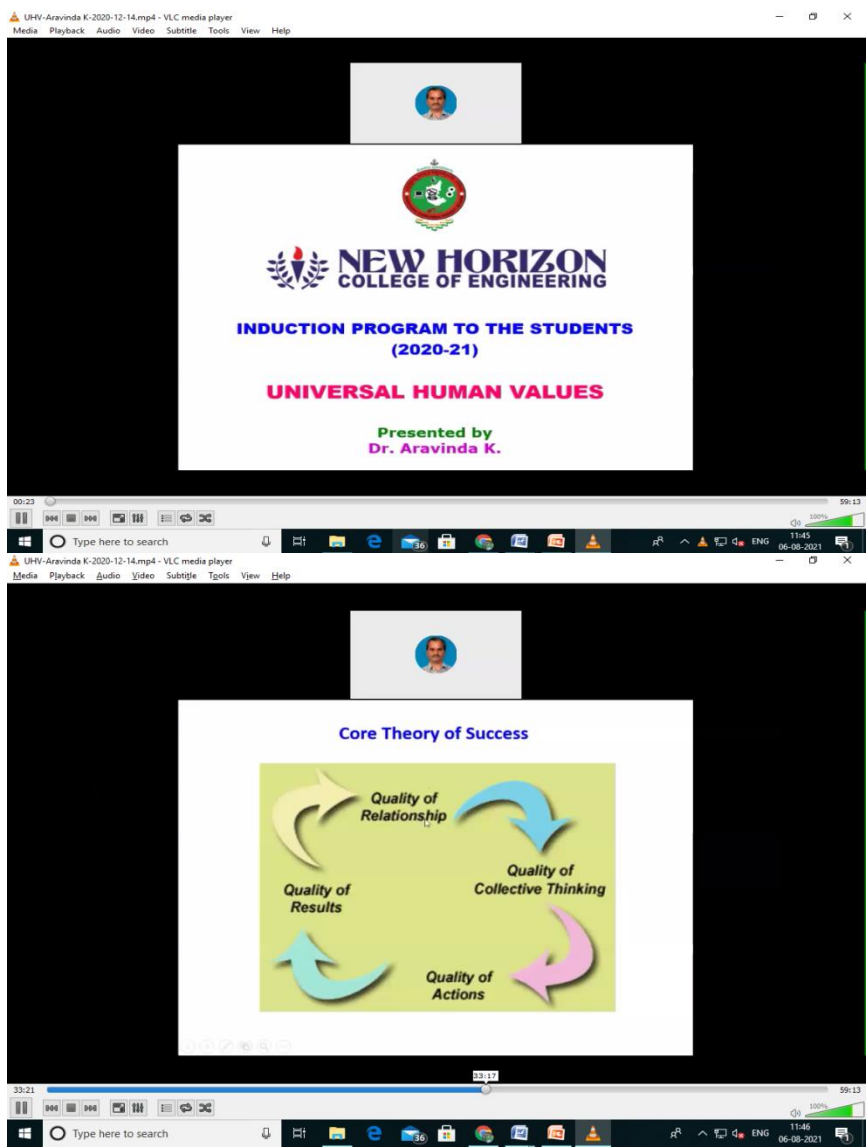
Awareness on Covid-19 & SOP:

The global impact of Covid 19 epidemic is huge and devastating with many mutations of virus itself and new challenges arising henceforth. As like everyone students also facing unprecedented challenges and questions as they grapple with their respective futures amid the ongoing fallout of the pandemic. Keeping in mind the Prioritization of a Safe Return to Normal, we Department of Basic Sciences and Humanities organised this awareness program for students during this period where whole country is trying to cope with the ongoing wave of COVID-19. The program was arranged through online zoom platform on 18th December 2020. This Session was addressed by a renowned doctor Dr. Ambika, who is also the Chief COVID Officer at Airforce Hospital, Bengaluru in the presence of HODs of different departments, Teachers & Students.Session started with the welcome address and introduction of the speaker. Then the session was handed over to Dr. Ambika where she setup the talk by explaining the audience about Covid-19 pandemic, its impact and a detailed explanation of as citizens what precautions and care must be taken in order to protect oneself and the surrounding people. Then he also described about current measures & guidelines laid down by the Central & State Govt.(s).During the session DrAmbika also emphasised on the importance of inoculation and the efforts taken by the Govts and the front-line medical warriors to educate the citizens. In brief he also explained how vaccination helps the individual and as whole the society to fight Covid-19. During the interactive Q & A session many doubts raised by the audience: both students and faculties were addressed by Dr. Ambika about various SOPs to be followed for the prevention of spreading of COVID 19.Finally, Dr. Ambika concluded her talk by providing information about different things we should take care of and how to control our Physical, Mental & Social health in an effective manner.

At last, but not the least, Vote of Thanks was presented and ultimately saluting her as the frontline COVID Warrior for us.
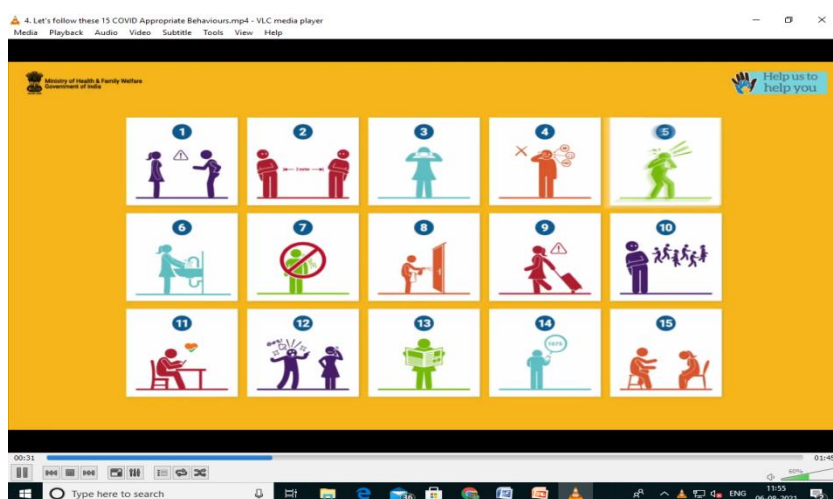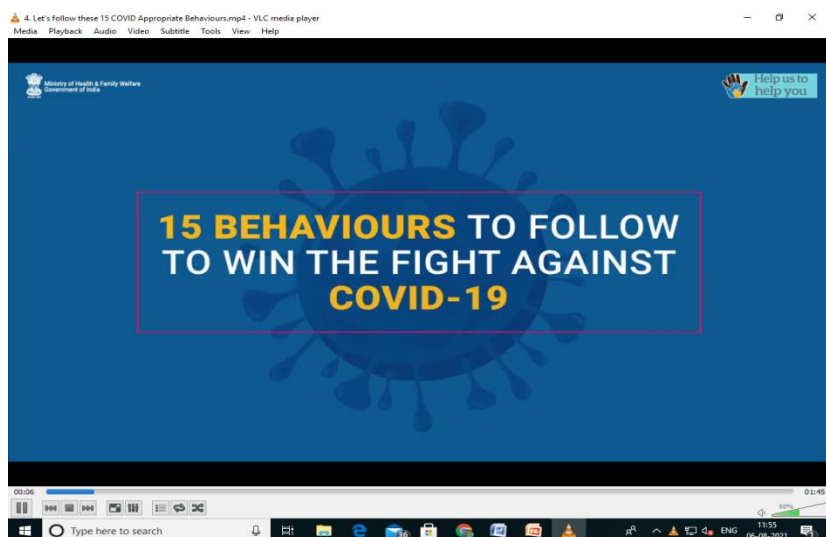
SELF AWARENESS

The department of counseling conducted welcome back session on "Self Awareness" for the students of BSH department (Chemistry Cycle and Physics Cycle) on 19th December 2020 by their respective counselors. Students were grouped according to their sections and their respective counselor conducted the sessions. A detailed report of the sessions is been given below.

Date	Department	Topic	Participants Attended	Conducted By
19/12/2020	BSH - Physics Cycle	Self Awareness	480	Ms. Bhavtarini . M
19/12/2020	BSH -Chemistry Cycle	Self Awareness	550	Ms. Rosina Jacob

Objective:-

Enable students to understand and see their own self clearly and objectively through reflection and introspection.
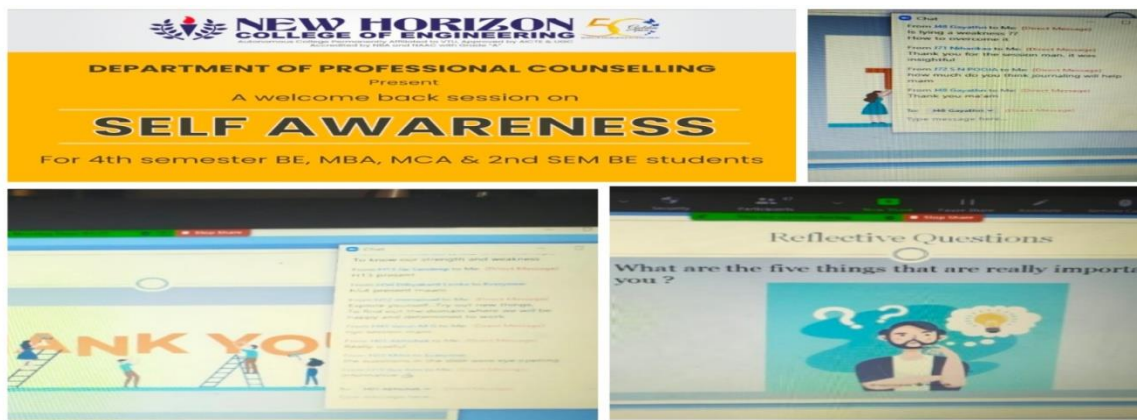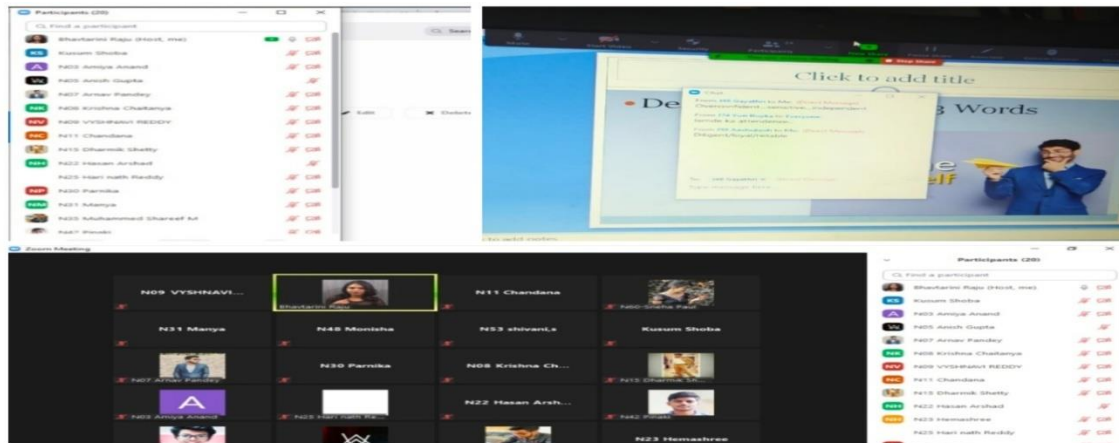
Topics covered under the session:-

➢ Self Awareness
➢ Self reflection questions on self awareness
➢ Self- Awareness Assessment Test- (DISC)
➢ Barriers to Self-Awareness
➢ Importance of being Self- Aware
➢ Self-Esteem
➢ Ways to Cultivate Self-Awareness

Session Summary:

The session was conducted online using the zoom platform. The topic of the session was Self-Awareness which was covered predominantly. The main objective of conducting this session was to help students to understand the concept of self-awareness and understand its importance. They were given self-reflection questions and an assessment tool to measure their self-awareness, as well as understand their strengths, weakness, emotions, wants and desires. They were also briefed on self- esteem and self-confidence and ways to cultivate self-awareness.

The sessions were interactive and received a positive response from the participants.

Scope of the various Engineering branches:

In this session, the Heads of the respective engineering branches have spoken about the scope of their branches and its need in the present society.

To start with **Dr. M. S. Ganesh Prasad,** HoD Department of Mechanical Engineering has briefed the importance of mechanical engineering branch. He mentioned that, the essence of engineering is problem solving. Mechanical engineering combines creativity, knowledge and analytical tools to complete the difficult task of shaping an idea into reality.

Mechanical engineering is one of the broadest engineering disciplines. Mechanical engineers design, develop, build, and test. Mechanical engineers produce specifications for, design, develop, manufacture and install new or modified mechanical components or systems.

Mechanical engineers need to be technically minded, able to demonstrate numerical and scientific ability and have problem-solving skills. Mechanical engineers produce specifications for, design, develop, manufacture and install new or modified mechanical components or systems. Mechanical engineers need to be technically minded, able to demonstrate numerical and scientific ability and have problem-solving skills. Mechanical engineers produce specifications for, design, develop, manufacture and install new or modified mechanical components or systems. Mechanical engineers need to be technically minded, able to demonstrate numerical and scientific ability and have problem-solving skills.

Dr. Shridhar Kurse, Professor & Head has explained the significance of automotive engineering. He mentioned that, the study of automotive engineering to design, develop, fabricate, and test vehicles or vehicle components from the concept stage to production stage. Production, development, and manufacturing are the three major functions in this field. Automobile Engineering, also known as Automotive Engineering, is a field concerned with vehicle design, development, production, and safety testing. Automobile Engineers work closely with other engineers to improve automotive technical performance, vehicle aesthetics, and automotive software.

He also mentioned that, the important topics to be learnt in automobile branch are Fluid Mechanics and Machinery, Manufacturing Methods, Strength of Materials, Engineering Thermodynamics. Heat Transfer and Combustion, Automotive Petrol Engines, Engineering Analysis and Numerical Methods and Automotive Design Engines. Many people would say that the automobile is one of the greatest and most important inventions in human history. The automobile changed many things in the United States. The automobile gave people more personal freedom and access to jobs and services. It led to development of better roads and transportation.

Dr. P. S. Niranjan, Professor & Head mentioned about the significance of civil engineering department and the contribution of civil engineers to the society. He clearly described the responsibility of civil engineers for maintaining the overall safety of society in a number of ways including rural engineering. From constructing highways and buildings to bridges and tunnels, the responsibilities of civil engineers are many. Civil engineers are responsible for planning and overseeing different construction efforts and apply civil engineering principles to ensure that the constructed structures are safe and sturdy. Civil engineer is responsible for analyzing different factors regarding a construction project. They analyze the site of the construction and the surrounding area. The process includes search and investigation, verifying whether that location is feasible for construction purposes or not. Civil engineers also analyse the entire construction work that needs to be completed at the site. They have to analyse every step of the processes required for completing the construction job. A civil engineer also needs to use different figures, equation and applications to ensure that the processes are been implemented accurately. They need to conduct a number of functions such as conducting

chemical testing using various applications, use a drafting and design software throughout the project, and conducting electrical testing of devices and equipment. They also need to be aware of land surveying techniques and the metric system.

Dr. Sanjeev Sharma, Professor & Head, evidently showed that, the most important benefits that Electronics and Communication branch provides is freedom. He further elaborated that, The freedom to drift between hardware field and software field. Furthermore this is also the reason that a lot of industries choose to prefer Electronics and Communications engineers over other engineers. An electronics and communication engineer can work in aviation and avionics, consumer electronics, electricity plant, manufacturing, distribution, communication & telecommunication, computer application, radio & television, analytical equipment manufacturing and offshore industries. He mentioned that, the main fields of societal importance are Digital and Analog VLSI Design, Embedded Systems, Computer Networking and System Security, Wireless networks/Telecom, Digital signal processing applications, PLC/SCADA/DCS, PCB Designing.

Today, technology is growing at a rapid pace. In the coming future there is bound to be huge demand for competent engineers in electronic industry to cope this demand in technology. These engineers would be involved in creating and sustaining cutting edge technology to stay ahead in competition. An electronic engineer can find job in Consumer electronics manufacturing organization, Telecommunication industry, IT industries, Health care equipment manufacturing industry, Mobile communication, Internet technologies, Power Electronics, and Other industries like steel, petroleum and chemical industry, directing control and testing production process.

Dr. Mahesh M. Professor & Head, Spoke about the importance of Electrical engineers, the department of electrical engineering and overall wellbeing of the human life. He mentioned that, electrical engineers work at the forefront of practical technology, improving the devices and systems we use every day. From solar-energy systems to mobile phones, we innovate to meet society's communication, tech and energy needs. From light bulbs and television to cell phones and GPS, modern advances in electrical engineering have illuminated, informed, and connected the world. But did you know electrical engineering can be traced back to long before Thomas Edison? Discover the many ways electrical

engineering has been shaping society for thousands of years. Though it is responsible for the safety of a person or even the machine itself, this field isn't thoroughly understood and hence mostly neglected. In Plastic Processing Machineries, it basically handles Power Distribution, Protection and Automation. Electrical Engineers work in a wide range of industries and the skills required are likewise variable. Human Body is a machine and the Nervous system is its Electrical Engineering. Field of engineering dealing with study and application of Electricity, Electronics and Electromagnetism. Importance Of Electrical Engineering In Machineries

Prof. B. Rajalakshmi HoD, Department of Computer Science and Engineering mentioned that, been living amidst the revolution powered by computers, our choices, way of living and communication is affected in all respects. The revolution can easily be stated as Communication, Transportation, Medicine, and Entertainment Revolution. Computer Science is no doubt an exciting and extraordinary creative discipline propelling students towards innovation and technology. Studying Computer Science is much more than just logic, algorithms, abstraction, and computability. However, it expands to software engineering, networking, distributed systems, information retrieval, programming languages and many more.

Why Computer Science in Demand - Many students in India and abroad choose to study Computer Science because of the bright career prospects. Students studying this discipline learn technical skills such as programming, problem-solving, leadership, and many more. From schools to hospitals and financial companies, computer science has its role everywhere. With the high demand of computer science and technology in the industry, B. E. Computer Science and Engineering courses have gained potential which land students in various positions- Systems Analyst, Web Developer, Finance Programmer, Software Engineer, Product Manager, Game Developer, and many more.Studying computer science from a renowned college comes with a range of opportunities for the students such as agile learning, campus placement, industry visits, guest lectures, and much more. Industry association is the main highlight of these programmes including regular interaction with the industry experts in the specialized labs.**Dr. R. J. Anandhi,** Professor & Head – Information science and Engineering. She has clearly explained the value for

information science engineers and their contribution to the technological advancement. She mentioned that, students of information science learn about computers, but they also study people. Information science majors learn how to create systems for finding and storing data. Students look at the big picture of information exchange and learn how people interact with, use, and sell information. The Information Science and Engineering professionals will be able to design, create and implement software applications to solve real-world problems. They can figure out how to evaluate the ethical, legitimate, proficient and social standards of engineering knowledge and practices. "Information science is the science and practice dealing with the effective collection, storage, retrieval, and use of information. It is concerned with recordable information and knowledge, and the technologies and related services that facilitate their management and use. Students of information science learn about computers, but they also study people. Information science majors learn how to create systems for finding and storing data. Students look at the big picture of information exchange and learn how people interact with, use, and sell information. Being an information Science engineer they have job opportunities as, Systems analyst, Systems administrator, Business analyst, Network architect, Web developer, Technical writer, Information security analyst, Database administrator.

AI engineers are in high demand and for good reason. Artificial intelligence has seemingly endless potential to improve and simplify tasks commonly done by humans, including speech recognition, image processing, business process management, and even the diagnosis of disease. Automation. Benefits of artificial intelligence are, Smart Decision Making, Enhanced Customer Experience, Medical Advances, Research and Data Analysis, Solving Complex Problems, Business Continuity, Managing Repetitive Tasks. Machine learning and electrical engineering professionals leverage AI to build and optimize systems and also provide AI technology with new data inputs for interpretation. For example, engineers build systems of connected sensors and cameras that ensure that an autonomous vehicle's AI can "see" the environment. Simply put, machine learning allows the user to feed a computer algorithm an immense amount of data and have the computer analyze and make data-driven recommendations and decisions based on only the input data. Following are the advantages of Machine

learning are, Easy identifies trends and patterns. Machine Learning can review large volumes of data and discover specific trends and patterns that would not be apparent to humans, No human intervention needed (automation), Continuous Improvement, Handling multi-dimensional and multi-variety data and Wide Applications.