



New Prince Shri Bhavani College Of Engineering And Technology

VENGAIVASAL MAIN ROAD, GOWRIVAKKAM, CHENNAI-73

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TECHNOPHILIA 2020

Experience
The
Innovation

IN ASSOCIATION WITH
NOTION



WORLD
WITHOUT
RULES

Information

Technology

MAGAZIA '20

MESSAGE FROM THE EDITORIAL BOARD

It gives us a great pleasure to bring you this issue of MAGAZIA'20. This magazine is a platform to exhibit the literary skills and innovative ideas of teachers and students. MAGAZIA presents the achievements of students and teachers. We would like to place our gratitude and heartfelt thanks to all those who have contributed to make this effort a success. We profusely thank the management for giving support and encouragement and a free hand in this endeavor. Last but not the least we are thankful to all the authors who have sent their articles. We truly hope that the pages that follow will make an interesting read.

Cheers,

Ms.Arul Jothi K, AP/IT.

Ms.Blessing Christiana.K, AP/IT.

THE SOUVENIR





From the Desk of Chairman



I am happy to note that TECHNOPHILIA'20 is organized on 29th October, 2020. The domains that have been chosen for paper presentation are very vital in today's technological explorations. Current theoretical developments as well as their application to solve engineering problems bring an opportunity to strengthen the technical proficiency of students. I am confident that this online symposium will emphasize on technological challenges of the current century and will provide a forum for integrating the knowledge and experience from experts of different fields. The symposium is a perfect event for budding engineers to introspect and showcase their technical knowledge. The success of the symposium relies on the dedication and efforts of numerous people. I would like to appreciate all the members involved in the creation of TECHNOPHILIA'20.



From the Desk of Vice -Chairman



I am pleased that our college is organizing one day Online Technical Symposium TECHNOPHILIA'20, on 29th Oct, 2020. This event will definitely enable participants, to get an insight into the advancement and innovations in science and technology. I am sure that TECHNOPHILIA'20 will provide an ideal platform for imbibing knowledge. I would like to congratulate all the individuals who have put-in their hard work to organize this Symposium.



From the Desk of Principal



I am happy that our college is conducting an Online Technical Symposium “TECHNOPHILIA’20”, on 29th Oct, 2020. It provides a technical arena for the budding engineers to share their views. This will prove significance in helping them update their knowledge and prepare themselves to face the challenges in life and profession. I offer my best wishes and heartiest congratulations to everyone who has organized this occasion and wish all the best for the participants in all their pursuits and future endeavors.



From the Desk of Director



I am glad to know that our institution is organizing TECHNOPHILIA'20. This is a golden opportunity for growing engineers to share and acquire knowledge. I whole heartedly congratulate all the participants for their zeal to explore their technical and non-technical skills. Such an occasion provides a platform to share their knowledge, develop one's ability to face the uncertainty of the future with curiosity and optimism. I wish the online symposium a great success and hope that our young engineers make the best use of this opportunity.



From the Desk of HOD



It is quite gratifying to note that the department of Information Technology is hosting technical symposium, “TECHNOPHILIA’20”. I convey my warm greetings and felicitations to our department faculty members, organizing committee, our students and the participants who have given their great support. Our department magazine, “MAGAZIA’20” enables us to know the unseen talents among the students. It is my happiness to congratulate the team that has taken the initiative for producing this magazine. Reading this magazine would definitely be an inspiration and motivation for all students and staff. The magazine also gives a glimpse of the college to the public-at-large who are one of the stakeholders of the college. In this connection I convey my best wishes to the editorial board for their laudable effort and also wish them grand success in conducting the event. I feel that it is a good platform given to the college students where they can present their thoughts and ideas.

DEPARTMENT OF INFORMATION TECHNOLOGY

OBJECTIVE

To provide a quality learning environment, in terms of inspiring teachers, state-of-the-art facilities, experience sharing and widening the knowledge horizon, facilitating the student in the process of growth in the Information Technology field.

VISION

The Department of Information Technology, NPSBCET strives to lay new paths with new ideas by combining desire for increased learning and serves the nation by graduating skilled intellectual IT professionals.

MISSION

- To make students to be more creative and professed problem solving entrepreneurs
- To make students as tomorrow's leaders in Information Technology
- To import latest technical knowledge to the student
- To make our students competent in the competitive world
- To provide an environment where students are encouraged to be creative, go beyond their syllabi
- To provide efficient solutions to students using effective problem solving strategies
- To transform our students into compassionate human beings aware of the societal challenges
- To provide opportunity to the faculty members to empower their competence level.
- To nurture latest technologies in the right way

ABOUT THE DEPARTMENT

IT, The Innovative department had its splendid entrance on 11th Sept 2008. The first assembly set of IT was comprised of 46 undergraduates; the people who marked the first milestone made their subsequent batches of IT to trend their talents along with the existing fields of technologies and executed their hidden talents.

BEGINNING of BRAND-NEW ERA

With a gradual growth and acquirement on general and technical knowledge, we the learners of IT inaugurated an association for our department named, "NOTION" with an inspirational verdict "WORLD WITHOUT RULES", on Mar 11, 2011.

From its launch, still now & further more in future, the NOTION team is executing efficiently and effectively for bringing out the hidden talents and potential of individuals by organizing several technical & cultural events. Our communal hard slog made our team NOTION to initiate the first celebration named SINISTRA'11 which is an intracollege symposium, organized by Deptment of IT on Mar 11, 2011. It was been a value added function because the NOTION released their first magazine named ECSTACY'11 on such delicious day. This make signs of the commencement of a magazine been published for the first time in the history of this institution.

The potential of NOTION gradually increased the altitude of Department IT in the upcoming years by conducting various technical activities and fabulous events. Department takes august responsibility in organizing guest lectures, seminars, workshops and training programs with the help of engineers and academicians to help students to keep abreast with the latest developments in the field of IT. The department works in accomplishing the goals to create successful leaders in various fields of science, technology and management.

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ACADEMIC
ACHIEVEMENTS



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EDITORIAL
BOARD



Achievements

Activate Windows

ACHIEVEMENTS

FACULTIES ACHIEVEMENTS

- Faculty Members have published papers in various reputed journals.
- Faculty Members have produced 100% Result in various subjects.
- Ms.Arul Jothi K and Ms.Saraswathi S has received Elite Certificate for Cloud Computing course conducted by NPTEL.
- Ms.Anitha R and Ms.Sindhuja M has received Elite certificate for Internet of Things course conducted by NPTEL.
- Ms.Arul Jothi K, Ms.Blessing Christiana K and Ms.Saraswathi S were selected for translating the files of the courses offered by NPTEL and Swayam.
- Ms.Usha Nandhini P has been published 'Rights for Human at Stake' - Echoes from Henry Wadsworth Longfellow's The Slave in the Dismal Swamp.

STUDENTS ACHIEVEMENTS

- Roshini P from IV IT won First Place in Relay conducted by NPSBCET.
- Parasakthi P from IV IT won First Place in Relay at NPSBCET.
- Parasakthi P from IV IT won Third Place in Zonal Level Huddles.

- Parasakthi P from IV IT won Second Place in Half Marathon conducted by Sai Ram Engineering College.
- Parasakthi P from IV IT won Second Place in 400 mts at NPSBCET.
- Parasakthi P from IV IT won Third Place in Javelin Throw conducted by NPSBCET.
- Deepika R from II IT won 2nd place in shot put at NPSBCET.
- Allin Jonal from IV IT, Kaviya R from III IT, Vinith M from III IT, Keerthana G from IV IT, Keerthana V from III IT, Sandhiya A from IV IT, Sujina Sri V from III IT, Akshaya S from II IT, Snekhya V from I IT and Parasakthi P from IV IT won Second Place in Throwball conducted by NPSBCET.
- Snekhya V from I IT won First Place in Javelin Throw at NPSBCET.
- Priyanka S from III IT, Deepika R M from III IT, Divya Bharathi K from II IT, Deepika R from II IT and Gayathri P from I IT won First Prize in Chess Competition at NPSBCET.
- Vetrivel P from III IT, Arul Kumar S from II IT, Dhivakar E from II IT, Aswin H from I IT and Parthiban E from I IT won Second Place in Badminton conducted by NPSBCET.

- Keerthana G from IV IT won Second Place in 200 mts at NPSBCET.
- Keerthana G from IV IT won First Place in Relay at NPSBCET.
- Selvakumar R from II IT won Second Place in 200 mtrs at NPSBCET.
- Selvakumar R from II IT won Third Place in Discuss Throw at NPSBCET.
- Selvakumar R from II IT won Second Place in 200 mtrs in Zonal Level.
- Vengatesan M from II IT and Ragul S from II IT won First Place in Relay (4*100m) at NPSBCET.
- Balachandran J V from III IT and Selvakumar R from II IT won First Place in (4*100m) at NPSBCET.
- Balachandran J V from III IT and Selvakumar R from II IT won Third Place in Volley Ball match in Zonal Level.
- Arul Kumar S from II IT won Fourth Place in Badminton in Zonal Level.
- Nancy Victoria T from II IT won First Prize in Tamil Poetry at NPSBCET.
- Akshaya S from II IT , Nancy Victoria T from II IT and Deepika R from II IT won Second Prize in Group Song at NPSBCET.

ACADEMIC ACHIEVEMENTS



VENKATESH M

CGPA 8.27 [2016-2020]



HEMAVATHY K

CGPA 8.2 [2016-2020]



ELAKKIYA T

CGPA 8.92 [2017-2021]



VETRIVEL P

CGPA 8.58 [2017-2021]



NANCY VICTORIYA T

CGPA 9.08 [2018-2022]



KARTHIK G

CGPA 8.81 [2018-2022]



ABINAYA R

CGPA 8.8 [2019-2023]



VELVIZHI K

CGPA 8.64 [2019-2023]

PLACEMENT RECORD



ALLIN JONAL J
HINKSYNQ SOLUTION



HEMAVATHY K
TATA CONSULTANCY SERVICES



JENIFER S
COGNIZANT TECHNOLOGY SOLUTION



PARASAKTHI P
NETTYFISH SOFTWARE



KEERTHANA G
HINKSYNQ SOLUTION



JASMIN AISHWARYA M
HINKSYNQ SOLUTION



HESHMADHARSHINI J
HINKSYNQ SOLUTION



RAMYA R
HINKSYNQ SOLUTION



SRIVIDHYA V
ALCANE TECHNOLOGIES &THINKSYNQ SOLUTION



SUDESH EZHIL RAJ S
ALCANE
TECHNOLOGIES,THINKSYNQ
SOLUTION &NETTYFISH
SOFTWARE
NETWORK



SUMEET KUMAR SINGH
SUTHERLAND &CSS
CORP



VENKATESH M
VINSINFO,BRILLAPP
SOFTWARE &NETTYFISH
SOFTWARE
NETWORK



RAJKUMAR C
KUMARAN DECATHLON



VIGNESH KUMAR P
HINKSYNQ SOLUTION



ROSHINI P
NETTYFISH NETWORK,
QSPIDERS &ALCANE
TECHNOLOGIES



FACULTY MEMBERS



Dr. S. SUBBURAM
HEAD OF THE DEPARTMENT



Ms. SINDHUJA M
Assistant Professor



Ms. ANITHA SELVAKUMAR
Associate Professor



Ms. ARUL JOTHI K
Assistant Professor



Ms. BLESSING CHRISTIANA K
Assistant Professor



Ms. SARASWATHI S
Assistant Professor



Ms. KARTHIKA S
Assistant Professor



Ms. USHA NANDHINI P
Assistant Professor

OFFICE BEARERS



VETRIVEL P
PRESIDENT



KARTHIK G
VICE-PRESIDENT



VINITHA M
SECRETARY



ARUL KUMAR S
JOINT-SECRETARY



AKSHAYA S
JOINT-SECRETARY



KAVIYA R
TREASURER



NANCY VICTORIYA
JOINT-TREASURER



ELAKKIYA T
PLACEMENT
SECRETARY



DEEPIKA R M
PLACEMENT
SECRETARY



RESEARCH

ARTICLES

Social Distancing and Face Mask Detection in Public Areas Using Deep Learning

Kaviya V, Vedhashree D
Sri Sairam Engineering College

As per information got by the WHO the worldwide pandemic of COVID-19 has harshly affected the world and has now contaminated over 40 million individuals around the world. Wearing face covers and following safe social separating are two of the upgraded security conventions that should be continued openly submits in request to forestall the spread of the infection. To establish a safe climate that adds to public security, we propose an effective PC vision-based methodology zeroed in on the constant robotized checking of individuals to identify both safe social separating and face masks openly puts by actualizing the model on raspberry pi4 to screen action and recognize infringement through the camera. After the discovery of break, the raspberry pi4 imparts readily to sign to control focus at state police base camp and offer a caution to the public. In this proposed framework present-day profound learning calculation has been blended in with mathematical procedures for building a vigorous modular which covers three parts of discovery, following, and approval. Subsequently, the proposed framework favors the general public by sparing time and aides in bringing down the spread of Covid. It tends to be actualized successfully in a current circumstance when a lockdown is facilitated to assess people in open get-togethers, shopping centers, and so on computerized assessment lessens labor to examine general society and can be utilized in any spot

Conveyor Belt Sanitizer with Automatic fog sanitizing spray

Balaji R, Nikhitha S, Sobhana S

Sri Sairam Engineering College, Chennai

The corona virus COVID-19 pandemic is the defining global health crisis of our time and the greatest challenge we have faced since World War Two. We have now reached the tragic milestone of one million deaths, and the human family is suffering under an almost intolerable burden of loss. People-to-people and travel exchanges have all been restricted. To face this issue in a positive way here is the proposal of Conveyor Belt Sanitation of Bags and Objects using UVC's with Automatic Fog Sanitizer Spray.

Events to Preclude Rigger Cost By Means Of Cloud Computing

N. SRIABIRAMI, A. JANARTHANI

MANGAYARKARASI COLLEGE OF ENGINEERING

This paper ensures the safety measure of rigger who climbs the Ground Based Tower (GBTS). The main scope is to identify whether Worker is wearing the safety harness (clamp, suit) before Climbing BTS/GBT.

Safety System for Coal Mines Based On IoT

G.S.Rubini , N.Saraswathi, B.Anburaj

Mangayarkarasi College of Engineering

Coal is one of the most important fuel sources and is of paramount importance to many industries, often regarded by many as Black Diamond. It is the most important indigenous energy resource available in the world. Digging up more and more coal has become a national priority for India as it tries to meet its ever-increasing demand for electricity. But for the people who do this job, it is a dangerous and potentially lethal assignment. Workers in coal mines face many environment related problems such as high temperature, humidity, release of harmful gases to name a few. These factors create a rather dangerous environment for workers to work in and thus poses a serious risk to their very lives.

As a means of reducing the intensity of the problem, we have developed a model which senses these environmental parameters from different locations in the mines and sends alerts to the mines control room so that appropriate actions can be taken whenever there seems to be a dangerous situation. Here NodeMCU is used as an MQTT publisher for these parameters sensed by the different sensors. The values of these parameters from different mine locations are sent

via MQTT, by being subscribed by a Raspberry Pi which acts as an MQTT broker here. When these values exceed certain threshold values, an alert by email can be sent to the mine control office so that required actions can be taken. This also generates an alarm for the workers to evacuate the place. This published data can also be stored in files for data collection and big data analytics so that more efficient systems can be developed to improve the efficiency and reduce the risk of workers potentially losing their lives.

E-Voting Using Block chain Technology

M VASUDEVAN

The paper discuss about the proposed electronic voting system using block chain for the purpose of information storage addressing all the advantages we discovered.

Secure Online Election System

Thaarun G Srivatsav, Mohamed Sayhanuddin N, Vijay Babu V

Sri Sairam Engineering College, Chennai

During a pandemic situation like COVID-19, it is very difficult to conduct the election in a regular basis. Hereby we came across with a solution to conduct an online election. So, we are planning to design a website application which contains the login page to verify the users by their voter id , username and password. The vote casting webpage contains the details of the ward candidates. The vote is validated by OTP sent to the registered mobile numbers of the users. After the verification, users can vote for the candidates. When the vote is casted, the same user's login will be expired. The results of the election will be declared by the governs of the election commission.



**STUDENT
CORNER**

கல்வி

காற்றின் மொழியா நீ _ இல்லை

காதலின் செவியா நீ

கடலின் ஆழம் போல்

உந்தன் ஆழம் எண்ணிலடங்கா

கற்க கற்க வியப்படையச் செய்கிறாய் என்னை

உன்னை அறிய இன்னும் ஓர் ஜென்மம் வேண்டும்

காற்றோடு கரையும் மணமாய்

உன்னில் நானும் கரைய விரும்புகிறேன்

கல்வி எனும் கரையா செல்வத்தை

வரமாய் தருவாயா.....

VISHALINI K

II YEAR IT

முயற்சி

மூச்சு விட்டுக் கொண்டிருப்பவன்

எல்லாம் மனிதன் அல்ல!

மூச்சு இருக்கும் வரை முயற்சி செய்து

கொண்டு இருப்பவனே மனிதன்!

ABINISHA A

II YEAR

AFTER LIFE

In This dark and dusty paradise they dug for me,
I finally got the peace I had never found,
The end of all suffering a place where I like to be,
I place without sound.
But even in this endless dreams,
I feel the guilt of a family,
A family that screams,
For having lost a child unwillingly.
Because if I could go back and make things right,
I would stop myself from dying,
Because of the cries I hear at night,
The memories of them heart-breaking.
A loss is the greatest pain,
While I try to go back in vain.

KAVIYA R

IV YEAR



Art Workplace



ABITHA PAULINE K

II IT

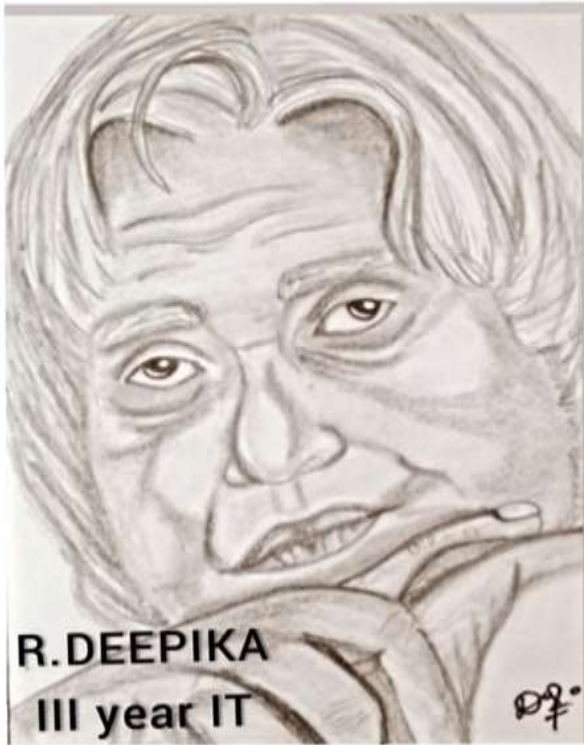


KAVIYA R IV IT

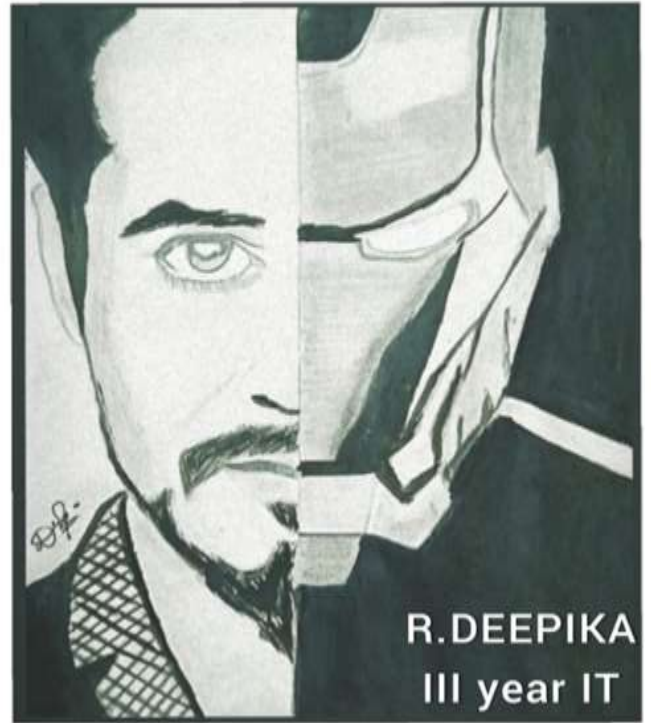


ABIRAMI S

II IT



R.DEEPIKA
III year IT



R.DEEPIKA
III year IT



R.DEEPIKA
III year IT



R.DEEPIKA
III year IT



PHOTOGRAPHY

SNEHA.V

II IT



ABINISHA.A

II IT



VINITHA M

IV IT



ABITHA PAULINE.K

II YEAR



VISHALINI K

II IT



RANJANI/ IV IT



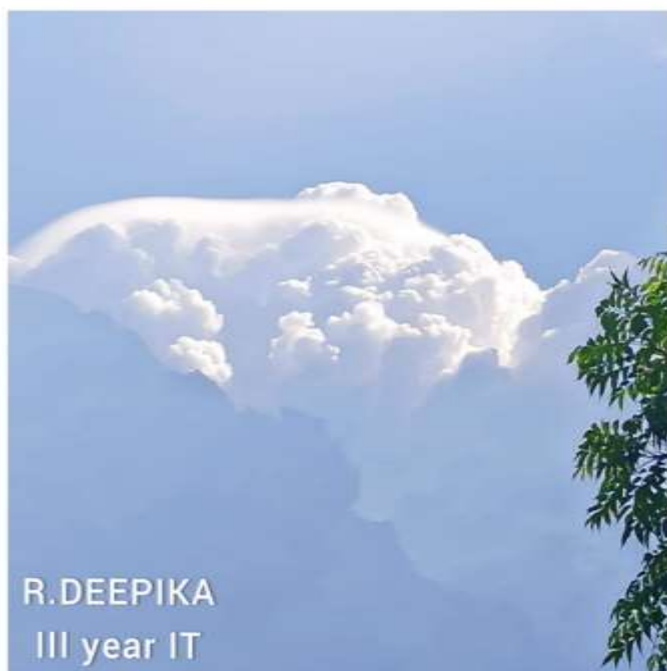
R.DEEPIKA
III year IT



R.DEEPIKA
III year IT



R.DEEPIKA
III year IT



R.DEEPIKA
III year IT



Gallery

INDUSTRIAL VISIT





A decorative border composed of various-sized spheres in shades of cyan and purple, arranged around a central white rectangular area with a black border.

EDITORIAL ADVISORS

Ms.Arul Jothi K AP/IT

Ms.Blessing Christiana K AP/IT

Sincere thanks to,

EDITORS

Karthik G II IT
Akshaya K II IT
Abitha Pauline K I IT
Kaviya R IV IT
Deepika R M IV IT
Rekha K IV IT

