FROM HOD'S DESK

Mr. S. B Patil

Department of Information Technology is the active promotion and implementation of Information Technology trends in the minds of student to create an engineer's that will pursue Excellence in their life. We as a department facilitate our student to obtain the challenging position where they can contribute their potential technical skills and their talent for their growth in the era of IT revolution. We also promote our student to gain the knowledge in various aspect of IT domain. Our laboratories are well equipped spacious, furnished to provide comfort while learning.

Vision of Department of Information Technology

To develop competent IT engineers with enhanced knowledge, skills and professional attitudes to suit the changing scenario and to serve techno-social needs

Mission of Department of Information Technology

M1:To implement teaching-learning processes for the spreading the knowledge of fundamental engineering and emerging trends.
M2 :To adapt teaching practices to meet the needs of IT industry and society.
M3:To inculcate the sense of social responsibility among learners.

Programme Educational Objectives (PEOs):

PEO 1. Provide socially responsible, environment friendly solutions to Information technology related broad-based problems adapting professional ethics.
PEO 2. Adapt state-of-the-art Information Technology broad-based techniques to work in multidisciplinary work environments.
PEO 3. Solve broad-based problems individually and as a team member communicating effectively in the world of work.

Program specific outcome

PSO 01. Modern Information Technology: Use the latest technologies for operation and application of information.
PSO 02. Information Technology Process: Maintain the information process using modern information and communication technologies.

India in Science and Technology

Introduction India ranks third among the most attractive investment destinations for technology transactions in the world. Modern India has had a strong focus on science and technology, realsing that it is a key element for economic growth .India is among the topmost countries in the world in the field of scientific research, positioned as one of the top five nations in the field for space exploration. The country has regularly undertaken space missions, including missions to the moon and the famed Polar Satellite Launch Vehicle (PSLV).

India is likely to take a leading role in launching satellites for the SAARC nations ,generating revenue by offering its space facilities for use to other countries. As of November 2021, the number of universities in India stood at 1,019. Developments

Some of the recent developments in the field of science and technology in India are as follows:

DST and GE India are likely to collaborate for Advanced Technology Research, according to the Science and Engineering Research Board. Over the next five years, academic institutes will get up to US$2.68 million in funding for research in the fields of energy, healthcare and aviation. In October 2021, India and Europe held discussions to review the progress on science and technology bilateral cooperation and strengthen efforts on research and innovation.

In October 2021, the government launched the Indian Space Association (ISpA) to accelerate technology advancements and strengthen the space sector in the country. India offers various opportunities for research &development and innovations. As of 2021, >70% of the 50 most innovative firms across the world have are search and development centre in India. With support .

from the Government, considerable investment and development has incurred in different sectors such as agriculture, healthcare, space research ,and nuclear power through scientific research. For instance, India is gradually becoming self-reliant in nuclear technology.

   Darsh Dhingani (SYIF)

"Hello, I'm Abhijeet Sunil Chandak, a proud alumnus of MET BKC Institute of Polytechnic, graduating in Information Technology in 2020. My time at MET BKC was transformative, providing me with a solid foundation in IT and valuable life skills. The dedicated faculty, top-notch facilities, and a supportive community made my journey unforgettable. I'm grateful for the opportunities and experiences that have helped shape my career, and I'm proud to be part of the MET BKC family. Thank you for the memories and the learning that continue to enrich my life.

Moreover, the network and connections I developed at MET BKC have been instrumental in my professional growth. The alumni network here is a valuable resource, and I'm honored to contribute to it as a successful graduate. I look forward to maintaining these connections, giving back to the institution, and watching future generations of students thrive in the same supportive environment that helped me reach my potential."

Mr.Abijit Chandak

 Associate software engineer

 Mindbody Software Pvt Ltd , Pune

Mr.Vishal Satale a student of Third Year Information Technology (TYIF) found Bug in Snap Chat.

जिल्हा-शहर   सकाळ   नाशिक, गुरुवार, ३ नोव्हेंबर २०२२   ३

'स्नॅपचॅट' मध्ये विशालने शोधला बग

मेट तंत्रनिकेतनमधील पदविकेतील विद्यार्थ्याची कामगिरी

सकाळ वृत्तसेवा

नाशिक, ता. २ : येथील विशाल सटले याने स्नॅपचॅट या लोकप्रिय सोशल नेटवर्किंग अॅपमधील बग (तांत्रिक चूक) शोधत ती कंपनीला लक्षात आणून दिली आहे. यासंदर्भात अॅप विकसकांकडून तांत्रिक चूक स्वीकारल्याबाबतचा ई-मेल विशालला प्राप्त झाला आहे. विशाल हा मेट भुजबळ नॉलेज सिटी येथील पदविका अभ्यासक्रमातील तृतीय वर्षातील (आयटी) विद्यार्थी आहे.

मेट पॉलिटेक्निकचा विद्यार्थी असलेला विशाल हा सामंजस्य

असा होता बग

या बग (तांत्रिक चूक) मुळे समोरील वापरकर्त्याने पाठवलेला फोटो हा स्क्रीन शॉटद्वारे आपल्याकडे ठेवता येऊ शकत होता. याबदल समोरील व्यक्तीला कल्पना नसल्याने, यातून गोपनीयता (प्रायव्हसी) अटी-शर्ती बाधित होत होत्या.

करारांतर्गत सायबर संस्कार या सायबर सुरक्षा देणाऱ्या नामांकित संस्थेत इंटर्नशिप करत आहे. याअंतर्गत त्याने सुरक्षेच्या दृष्टीने स्नॅपचॅटमधील महत्त्वाचा बग शोधण्याची कामगिरी करून दाखवली आहे. सायबर संस्कारचे संचालक तन्मय दीक्षित यांचे त्याला सहकार्य लाभले.

विशालच्या कामगिरीबद्दल मेट भुजबळ नॉलेज सिटीचे विश्वस्त समीर भुजबळ, प्राचार्य डॉ. राजेंद्र नारखेडे, विभागप्रमुख संजीव पाटील, ट्रेनिंग व प्लेसमेंट अधिकारी प्रा. उमेश पाठक, प्रा. अनिल गोसावी आदींनी अभिनंदन केले आहे.

नाशिक : स्नॅपचॅट या सोशल नेटवर्किंग अॅपमध्ये बग शोधणाऱ्या विशाल सटले या विद्यार्थ्यासमवेत मेट तंत्रनिकेतनमधील प्राध्यापकवृंद.

LOKMAT TIMES

LT Anchor ● Hackers can access info without the account holder noticing

City youth finds bug in Snapchat that can reveal private information

SMITA KAWALE
LOKMAT NEWS NETWORK

Nashik: City youth Vishal Gorakh Satle has located a rare bug in the social media app Snapchat, in which the private information of the account holder can also be easily captured in the form of a screenshot or any other means. Satle is pursuing his diploma in Information Technology in Bhujbal Knowledge City, here.

Cyber expert Dr Tanmay Dixit informed that it is widely known that Snapchat is a messaging app which is used mostly for pictures and messages that are available for a short period of time only.

The users can save their photos in a password-protected area called 'My eyes only' which cannot be seen by all. The company has also introduced the limited use of end-to-end encryption which is likely to be expanded in future. Students can find such types of bugs and get rewards.

Snapchat became widely popular among youngsters due to its 'My Eyes Only' feature.

Interestingly, Satle, while researching on the app under his industrial internship in Cyber Security with Cyber Sanskar, came across the bug through which the hackers can lay their hands on the private information without the account holder noticing.

> In the world of industrial revolution, 4.0 cyber security is going to be a bright career opportunity in terms of jobs as well as freelancing. Students can find such types of bugs and get rewards. Daily lakhs of applications are coming into existence in the world of internet, for use in day to day life. In such a scenario, bug bounty is the opportunity to grab.
>
> — Dr Tanmay Dikshit Cyber Expert, Cyber Sanskar

> While studying in this college, I am getting an opportunity to receive guidance from the cyber security team of such a major platform like Cyber Sanskar. I am grateful to MET Bhujbal Knowledge City for providing me this internship opportunity, where I could lay my hands on this bug.
>
> — Vishal Satle, Diploma Student

Nashik First
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Department of Information Technology sign MOU with different industries to share awareness about recent trends and demands of IT sector

1) Innovation Hub Pvt.Ltd Nasik , 2) Cyber Sanskar Pvt.ltd Nasik ,

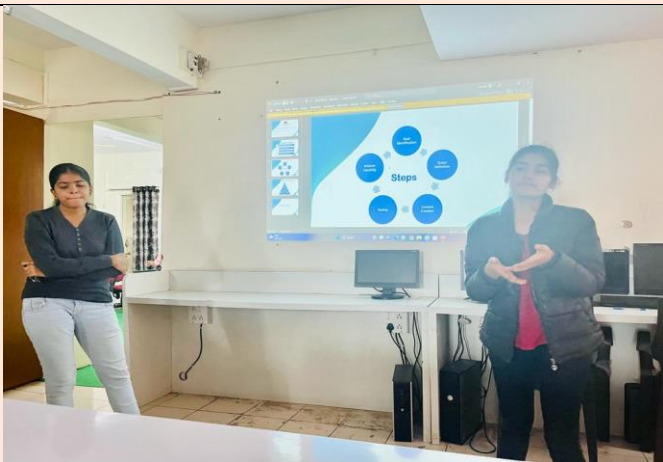3) Sundanda InfoTech Nasik , 4) Caliber InfoTech Nasik , 5)Awb –Industries ltd.

Name of Event : Engineer's day Celebration

"75th years of Independence of India "

Students Activities during Inplant Training

Presentations of students during Implant training

Presentations of students during Implant training

Industrial visit during Implant training -14 july 2023

Industrial visit during Implant training-14 july2023

Project work of third year students

Project work of third year students

Student's Achievements in Sports

Name of Event : Basket Ball
Winning Team: MET'S IOT Polytechnic Team Winner in Basket Ball at E2 Zonal level
Venue of Game: MET'S Institute of Technology –Polytechnic Nasik –held in Dec.2022
Participate students : Arjun Rakate , Om Chandwadkar , Arjun Mali
Staff Coordinator : Mr.V.A .Yeole , Mr. R.V Padar

Name of Event: Kabaddi at E2 Zonal level –ISSDA
 Winner: MET'S IOT Polytechnic Team Winner in Kabaddi
Venue of Game: RSM Polytechnic, Nasik –held in Dec.2022
Participate students: Arjun Rakate , Jayesh Deasle ,
 Staff Coordinator: Mr.Anil Gosavi

A Curve of 30 girl's student participated in Zonal Level Sports competition at
Venue of Game : K.B.P. Polytechnic, Kopargaon **held in 2022-23.**
Staff Coordinator: Mrs.Pallavi Takte , Mr.V.A.Yeole , Mr.Ravindra Padhar , Mrs.J.B.Mhaske

Industrial Visit at IIT Bombay

Deaprtment of Information Technology Organized indstrial vist to IIT Bombay during TechFest -2023 to provide awreness among students about project devlopment ,to grap new idea in field to devlopment
Faculty involved : Mr.C.S.Mogare , Mrs. Pallavi Takate Number of Beneficiaries : 35 students

Area of IT sector : Data Mining , Troubleshooting ,Cloud architecture ,Project management Customer support , debugging ,Experience with types of hardware ,   AutoCAD, Data Science , Encryption ,Game development ,Gamification ,Graphic design   ,Workflow automation ,Customer relationship manage ment, CRM , Robotics ,Backup and recovery Batch processing   ,Deploying applications in a cloud environment   ,Information systems ,Integration of open source technology ,Artificial intelligence ,Database auditing ,NoSQL databases ,Service Desk ,Machine Learn ing

Social Corner

Department of Information Technology actively participated in "School Connect Program" to provide awareness among students of different schools

Knowledge sharing towards society

Students of Information Technology share their knowledge gain through Implant training among school students during implant training on "cyber security "

Mr .Darsh Dangani student of second year information technology provide awarness amnog students about cyber security in Golabal Vision School Nasik under gudance of Dr. Tanamy Dixit .
Date : 10 July 2023.

Ms.Snehal Pande student of second year Information Technology providing awarness amnog students about cyber security and mobile security at KKW school Nasik .
Date : 23June 2023
Banificaries : school students

MET'S INSTITUTE OF TECHNOLOGY (POLYTECHNIC)

Social Awareness through Implant Training

In this global scenario cyber-crime and cyber-attacks are the life threatening issues to most of professionals. Hence it is the need of modern age to provide social awareness among not only to the grown-ups but even to school students as well as general people at large. MET's Institute of Technology Polytechnic students of Second year IT provide awareness through different sessions at different schools and public places under the guidance of Dr.Tanmay Dixit(Director of Cyber Sanskar).

Prof.P.M.Takate
Prof.C.S.Mogare
Implant Training co-ordinators

Prof.S.B.Patil
HOD

Dr.R.S.Narkhede
Principal

Achievements in Academic

Congratulation to **KUNTE VAISHNAVI SANJAY for scoring out of marks (70/70)** in Basic Mathematics in first year MSBTE Winter 2022 exam

Students of Information Technology got prizes in different competitions

Meritorious students of Winter 2022

S.No.	Exam	Class	Rank	Percentage	Name of Student
1	MSBTE Winter-22	Third Year IF	1	90.12%	THORAT GANESH ASHOK
2			2	88.94%	DEVKAR RUTUJA DHANAJI
3			3	88.59%	JADHAV DATTATRAY N
4	MSBTE Winter-22	Second Year IF	1	88.50%	PARITOSH RANJEET SANDAN
5			2	86.75%	PAGARE SHRADDHA S
6			3	85.75%	KELA OM PRASHANT
7	MSBTE Winter-22	First Year IF	1	85.29%	AVHAD ANUJA RAVINDRA
8			2	85.14%	KUNTE VAISHNAVI SANJAY
9			3	83%	MALI ARJUN RAMESH

Title: The Advancements in Quantum Computing and Its Implications for the Future

Introduction: Quantum computing is a field of computer science that is rapidly advancing and revolutionizing the way we process information. With the ability to perform complex calculations at an exponential speed compared to classical computers, the potential applications of quantum computing are vast and diverse. This article will explore the recent advancements in quantum computing and its implications for the future.

What is Quantum Computing?

Quantum computing uses the principles of quantum mechanics to perform computations. Unlike classical computers that use bits to represent data as either 0 or 1, quantum computers use quantum bits or qubits, which can exist in multiple states simultaneously. This allows quantum computers to perform multiple calculations simultaneously and solve complex problems that are difficult or impossible for classical computers.

Recent Advancements in Quantum Computing:

One of the recent advancements in quantum computing is the development of quantum processors with an increasing number of qubits. In 2019, Google claimed to have achieved quantum supremacy, which is the point where a quantum computer can solve a problem that a classical computer cannot solve within a reasonable time frame. They achieved this using a 53-qubit quantum computer called Sycamore.

Another significant advancement in quantum computing is the development of error-correction techniques that can mitigate the effects of noise and errors in quantum processors. This has enabled researchers to build larger and more reliable quantum computers, which is crucial for scaling up quantum computing for practical applications.

Implications for the Future:

Quantum computing has the potential to revolutionize several industries, including finance, healthcare, logistics, and more. For example, quantum computing can be used to optimize financial portfolios, simulate complex chemical reactions, and optimize supply chain logistics.

However, quantum computing also poses a significant threat to current cryptography systems. Quantum computers can easily break traditional encryption methods, which could have serious implications for cybersecurity. As a result, researchers are exploring new post-quantum cryptography methods that can resist attacks from quantum computers.

Conclusion:

In conclusion, quantum computing is a rapidly advancing field that has the potential to revolutionize several industries. With recent advancements in quantum processors and error-correction techniques, quantum computing is moving closer to practical applications. However, the implications of quantum computing for cybersecurity cannot be ignored, and researchers must develop new cryptography methods that can resist attacks from quantum computers. **Ganesh Thorat (TYIF).**

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