



SNJB



Late Sau. K. B. Jain College of Engineering, Chandwad

Department of Computer Engineering



News Bulletin

Computer Buzz

Volume: 10 , Issue: 1

AY. 2024-25 (Semester I)


(Jain Gurukul) Neminagar
Chandwad-423101. Dist: Nashik(Maharashtra,India)

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Our Vision & Mission



**SNJB's**
Late Sau. Kantabai Bhavarlalji Jain
College of Engineering
(Jain Gurukul) Neminagar, Chandwad, Dist. Nashik (MS)

VISION
Transform young aspirant learners towards creativity and professionalism for societal growth through quality technical education.

MISSION

- To share values, ideas, beliefs by encouraging faculties and students for welfare of society.
- To acquire the environment of learning to bridge the gap between industry and academics.
- To enhance diverse career opportunities among students for building nation.
- To transfer the suitable technology particularly for rural development.

**SNJB's**
Late Sau. Kantabai Bhavarlalji Jain
College of Engineering
(Jain Gurukul) Neminagar, Chandwad, Dist. Nashik (MS)

Department of Computer Engineering

VISION
To empower young generations for significant contribution in the field of computer engineering through excellence in knowledge, technical education and innovation to cater the industrial demands and societal needs.

MISSION

- To achieve academic excellence by inculcating basic and latest knowledge in which new idea flourish.
- To undertake collaborative training which offer opportunities for long term interaction with academia and industry.

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CO-ORDINATOR COE
MEMBER(PRABHAND SAMITI)

SOURCE OF MOTIVATION



DR. R. G. TATED
DIRECTOR



DR. M. R. SANGHAVI
JOINT-DIRECTOR

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FROM HEAD OF DEPARTMENT CORNER



DR. K. M. SANGHAVI

It gives me great satisfaction to welcome you all on behalf of the entire Computer engineering department. Happy to share the release of Computer Buzz, Vol-10 Issue-1. Dedication, Devotion and Determination are keys to success in any endeavour. With the due respect Department of Computer Engineering believe in the philosophy of “Learning by Doing”.

It is heartening to see the transformational programs of our government such as Digital India, Skill India, Stand-Up India. In the same context our department has adopted the practical solutions based on ‘Robotic Theme’.

Department aims to ‘Go Green’ by using digital technology and making the system paperless ultimately saving the environment. The department encompasses a fine blend of renowned as well as young and dynamic faculties who promote the theme using the digital medium ; the blog for sharing their teaching and other technological information making it global ; Google Classroom for interacting with the students to upload their assignments/classwork which students can access any time, any where ; Google Forms to conduct mock tests for Online Examinations.

Apart from academic activities, encouragement to appear for extra as well as co-curricular activities and many other academic excellence certainly pave a red carpet welcome to the hard working students in the department. Parent Teacher Meet, Salesforce Training, Internship Program & multiple programs under banner of CSI & SPACE are highlights of this semester.

The Alumni of the Institute have done exceedingly well in all walks of life at both national and international levels, brought name and fame for themselves as well as to their parent institute.

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Event

SR. NO	NAME OF EVENT	DATE OF CONDUCTION	RESOURCE PERSON
1	Parent-Teacher meet 2024-25	01/07/2024	NA
2	Quantum Computing	13/7/2024	NA
3	Drone Awareness Session	15/7/2024	NA
4	Financial Literacy	22/7/2024	Dr. Piyush Tated
5	Stress Less	27/7/2024	NA
6	Resume Writing	28/9/2024	Prof. Y. S. Patil
7	The Ultimate Guide to Presentation Preparation	5/8/2024	Ms. G. H. Deshmukh
8	Introduction to Git and GitHub	3/8/2024	NA
9	Cyber Security	8/8/2024	Mr. Hrithik Mishra
10	Career Guidance Session on TCS Placement Opportunity: How to prepare for MNC	9/8/2024	Mr. Pankaj Thakare
11	Career Guidance Session on How to Prepare Aptitude by Aptitech education	23/8/2024	Mr. Abhishek Gangwal
12	Drone Technology Session	31/8/2024	Om Bakre
13	Workshop on LaTeX Tool for Seminar Report Writing	21/9/2024	NA



Event

SR. NO	NAME OF EVENT	DATE OF CONDUCTION	RESOURCE PERSON
14	GATE 2025: Back to Fundamentals	21/9/2024 to 21/10/2024	NA
15	"Online Webinar on Career Opportunity in Foreign Language: Japanese	21/9/2024	Ms. Shamal Karnawat
16	Webinar on How to Prepare and Crack TCS Code Vita 12	23/9/2024	Mr. Sudarshan Pendhari
17	Freshers party and teachers day	26/9/2024	NA
18	“Accelerating Academia Towards Science Diplomacy”	28/9/2024	NA
19	"Online Webinar on Roadmap towards Product based Company Placement" (Pranav Kulkarni)	30/9/2024	Pranav Kulkarni
20	" Campus Connect and Infosys Springboard – Roadshow for students"	30/9/2024	Ms. Meenakshi Vyas, Ms. Lalita Bhangare
21	”Navigating the UN Sustainable Development Goals & UN SDG 2030 Agenda”	1/10/2024	NA
22	Online Webinar on Roadmap towards building Career in Security	3/10/2024	Mr. Atul Kahate
23	International Webinar on ”Navigating NASA's GLOBE Program”	3/10/2024	NA
24	Workshop on AI powered integration with Mulesoft and SalesForce	5/10/2024	NA
25	Online Webinar on Roadmap towards Product based Company Placement (Kalyani Tewari)	23/9/2024	Ms. Kalyani Tewari



GLIMPSES OF EVENTS

Parent-Teacher Meet 2024-25



Resume Writing



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GLIMPSES OF EVENTS

The Ultimate Guide to Presentation Preparation by Prof. Gunjan H. Deshmukh

SNJB's Late Sau. Kantabai Bhavarlalji Jain COLLEGE OF ENGINEERING
Accredited With A+ Grade By NAAC Accredited
NBA (Comp And Mech Engg)
Affiliated To SPPU

Session on
"The Ultimate Guide to Presentation Preparation"
Organized by Computer Department SNJBs LS KBJ COE Chandwad.

Date: 05/08/2024
Time: 12:10PM to 1:15PPM

Venue:
Auditorium

Renowned Speaker
Ms.Gunjan Deshmukh

Coordinator	HOD	Vice-Principal	Principal
I.D.Kawade.	Dr.K.M Sanghavi	Dr.M.R.Sanghavi	Dr. R.G.Tated



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Long 74.236621°
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Expert Talk on Career Guidance Session on How to Prepare Aptitude by Aptitude education



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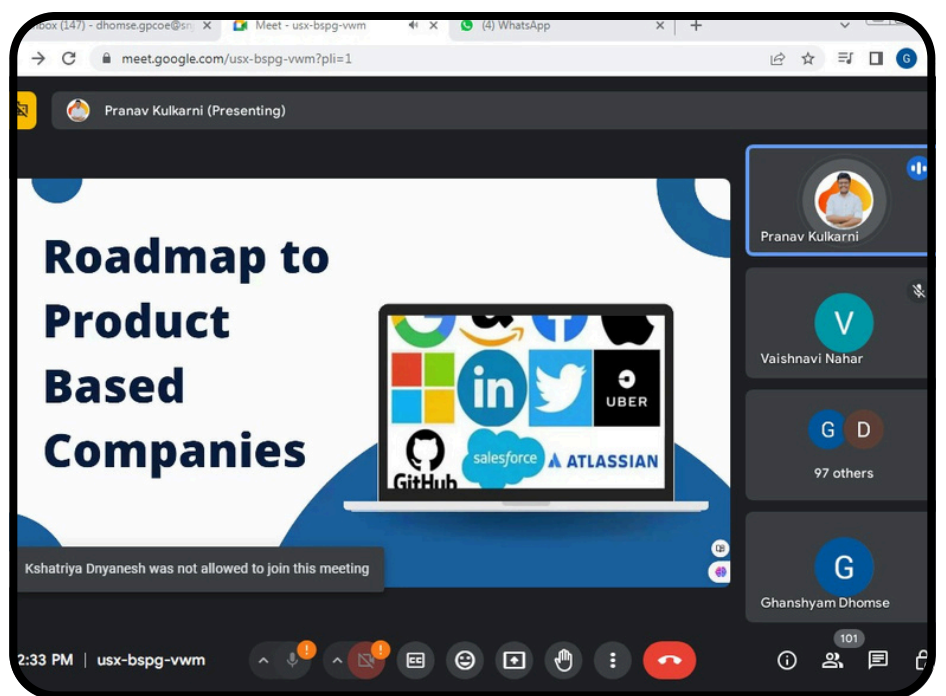
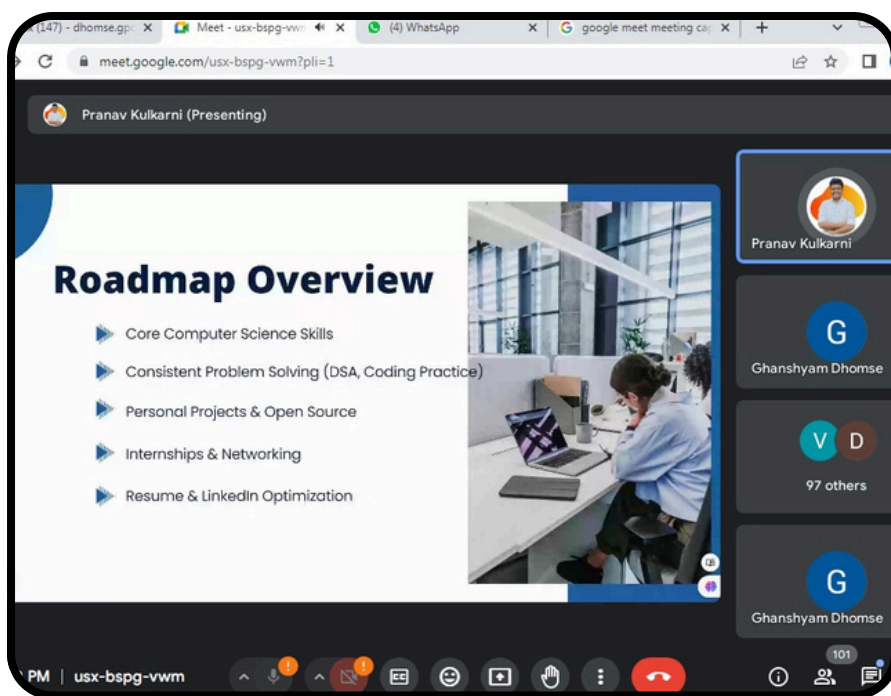


GLIMPSES OF EVENTS

Webinar on How to Prepare and Crack TCS Code Vita 12



"Online Webinar on Roadmap towards Product based Company Placement" by Pranav Kulkarni



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STAFF ACHIEVEMENT



Congratulations!

Mr. Yashraj Patil, Assistant Professor, Computer Engineering Department written book "Harmony 360 - Advancing Humanity through the Wisdom of 'SEE' and Saptajyotirvikas," has successfully published!

This book extends the novel philosophy he presented at the 78th Session of the UN General Assembly (UNGA78) Science Summit 2023. It offers a practical framework for advancing humanity, restoring lost values, and proposing a new societal development framework.



Mr. Yashraj Patil, Assistant Professor, Computer Engineering Department, was awarded the Chancellor's Gold Medal for Best Outgoing Postgraduate Student and recognized as the Best Performer in MTech by Symbiosis International (Deemed University) in Pune. He received this honor from the Hon'ble President of India, Smt. Droupadi Murmu, during the 21st Convocation of Symbiosis International University.

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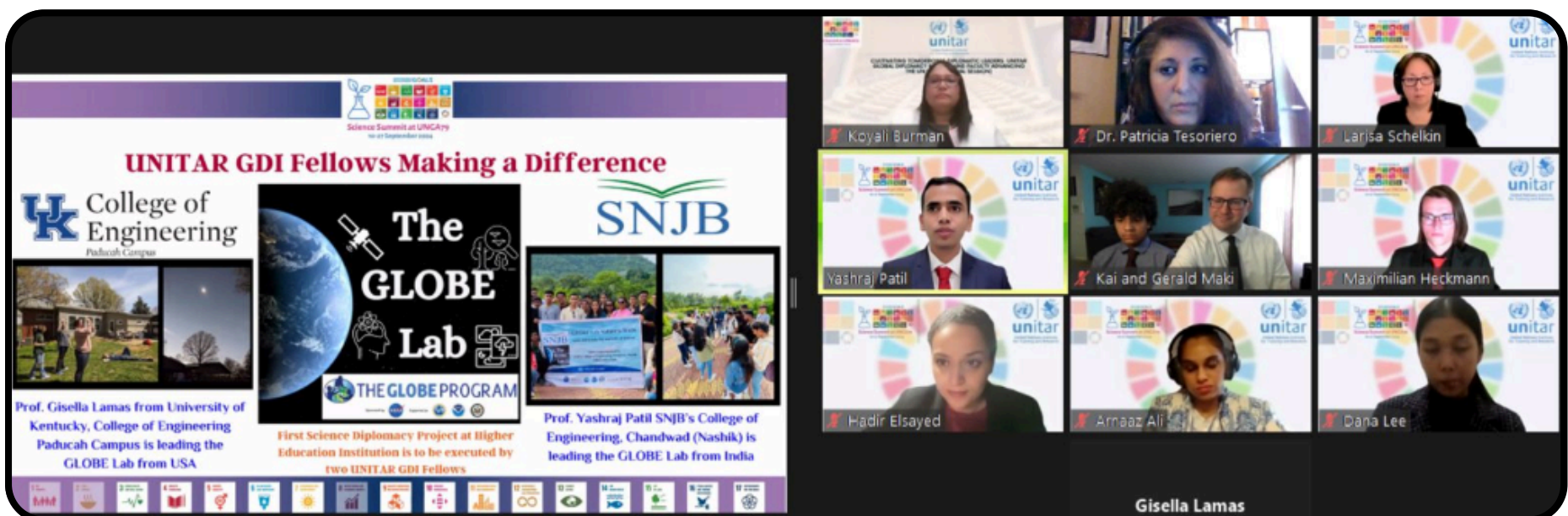


STAFF ACHIEVEMENT

Congratulations!



Mr. Yashraj Patil, Assistant Professor, Computer Engineering Department, represented India at the 2024 GLOBE Europe and Eurasia Regional Meeting in Ljubljana, Slovenia, from November 12-14. He led an international workshop on Scientific Data Storytelling and co-led a workshop on the wonders of soil with colleague Ramona from Malta, promoting scientific collaboration. A key highlight was the GLOBE Alumni Stories roundtable, which featured distinguished NASA GLOBE alumni and emphasized science diplomacy. U.S. Embassy officials from Europe expressed interest in supporting the GLOBE Lab inaugurated at SNJB COE.



Mr. Yashraj Patil, Assistant Professor, Computer Engineering Department is Honored to present on advancing Sustainable Development Goals through the integration of The GLOBE Lab and Science Diplomacy at the Science Summit during 79th Session of UN General Assembly starting today at the UN Headquarters, New York, USA.

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STAFF ACHIEVEMENT

Research Work by Faculty



Title : Prediction of Stock Market using Sentiment Analysis and Ensemble Learning

Authors: Prashant B. Koli, Rajiv R. Bhandari, Khyati R. Nirmal, Ghanshyam P. Dhomse, Nilesh V. Sharma, Ankita P. Shinde

Title : Explainable AI-based Plant Health Monitoring and Diagnosis of Diseases : A Comprehensive Study on Plant Ailment for Precision Farming

Authors: Ghanshyam P. Dhomse, Swati V. Sinha, Dnyaneshwar S. Rajnor, Santosh B. Ambhore, Mahesh R. Sanghavi, Prashant B. Koli

Title: Document Generation & Verification System for Educational Organization

Authors: Shubham Pawar, S. A. Chavan, Pratiksha Kadam, Komal Baviskar, Aachal Siddheshwar, Govinda Chastwe

Title:Blockchain Based E-voting For Student Association

Authors: Shlok S. Gang, Ruchika B. Deore, Amay S. Chordiya, Sakshi S.Savant, Y. K. Desai



STAFF ACHIEVEMENT



Congratulations!

Mr. Parag Achaliya Assistant Professor, Computer Engineering Department, Delivered session on Cyber Security and IT Act for the employees of Pimpalgaon Merchant, Ghoti Merchant and Business Bank at Ashoka Business School, Nashik. Around 70+ people including Bank Directors, CEO, and Branch Managers attended the same. This session was arranged by Maharashtra Rajya Sahakari Sangh Maryadit, Pune's Council of Co-operative Training, Nashik.

Research article of **Mr. Parag Achaliya** has published in the **Scopus Indexed Q3** journal.

Author - **Mr. Parag Achaliya**

Title - The Role of 5G in Enabling Secure Communication for IoT Devices:
Opportunities and Challenges

Journal - Library Progress International
ISSN: 0970-1052 and E-ISSN: 2320-317X



STAFF ACHIEVEMENT



Congratulations!

Dr. Neha P. Bora has published **Two Paper** in the **Scopus Indexed Q3** Library Progress International Journal

Title 1: Digital Leadership in the Era of Remote Work: Challenges, Strategies, and the Role of Emerging Technologies

Title 2 : Blockchain Applications in Supply Chain Management: Enhancing Transparency, Efficiency, and Risk Management

Dr. Neha P. Bora has published Paper in the **Scopus Indexed** Frontiers in Health Informatics Journal (ISSN-Online: 2676-7104)

The Role of Internet of Medical Things (IoMT) in Remote Patient Monitoring: A Review of Benefits and Security Concerns

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Congratulations!

Dr. Neha P. Bora, Assistant Professor, Department of Computer Engineering, has conducted an Expert Talk on "Turing Machine and its variations" in the subject of 'Theory of Computation' for TE students at NDMVP's KBT, College of Engineering, Nasik



Dr. Neha P. Bora Assistant Professor, Department of Computer Engineering, has conducted an Expert Talk on "TOC Paper writing skill, CFG, TM" in the subject of 'Theory of Computation' for TE students at Gokhale Education Society, R. H. Sapat, College of Engineering, Nasik

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STAFF ACHIEVEMENT



Dr Khyati R Nirmal has published paper in the **Scopus Indexed Q2 journal**.

Title - Advancements in Environmental Data Analysis for Climate-Resilient Agriculture Using Remote Sensing and Deep Learning

Journal - Remote Sensing in Earth Systems Sciences*



Prof. Dipali P. Pawar, Assistant Professor, Department of Computer Engineering, has published Paper in the **Scopus Indexed** Frontiers in Health Informatics Journal (ISSN-Online: 2676-7104)

Title: The Role of Internet of Medical Things (IoMT) in Remote Patient Monitoring: A Review of Benefits and Security Concerns



STUDENT ACHIEVEMENT



✨ Exciting News! ✨

Project **InnoStart India** has officially approved for **Copyright** with registration number L-151813/2024

Under the guidance of Dr. R. R. Bhandari sir and Prof. M. P. Surse madam.

Proud Team Members:

- Sagar Sharma
- Vedant Belsare
- Sakshi Gandhi
- Sainath Damre

Research Paper on “**Blockchain Based E-voting For Student Association**” in the International Conference on Recent Trends and Advancements in Computing Technologies. Amrutvahini College of Engineering, Sangamner.

Paper is also selected for **UGC Care Journal**

This paper was successfully presented under the valuable guidance of-

Prof. Y. K. Desai

This presentation was done by BE B students

1. Shlok S. Gang
2. Ruchika B. Deore
3. Amay S. Chordiya
4. Sakshi S.Savant

गांवकरी

■ नाशिक, सोमवार, दि. ९ सप्टेंबर २०२४ जिल्हा ६



एसएनजेबी अंतर्गत ग्लोब लॅबचे उद्घाटन

चांदवड : वार्ताहर
एसएनजेबीच्या "ग्लोब लॅब"ने, जे नासाच्या ग्लोब प्रोग्राम अंतर्गत पहिलं लॅब आहे. त्याच्या पहिल्या अधिकृत निरीक्षणासह एक महत्त्वपूर्ण टप्पा गाठला आहे. हे निरीक्षण सुंदर सातपुडा पर्वतांमध्ये, दाट जंगलाने वेढलेल्या परिसरात झाले.

या टीमने भूआवरण आणि ढगांचे आवरण याबद्दल महत्त्वाची माहिती गोळा केली आणि कर्कवृत्ताचा या प्रदेशावर आणि नर्मदा नदीच्या खोऱ्यावर होणारा परिणाम अभ्यासला. हे सर्व गुजरातमधील जगातील सर्वात उंच पुतळा असलेल्या स्टॅच्यू ऑफ युनिटी येथे करण्यात आले. "एकता"चे

प्रतीक असलेल्या ठिकाणी हे आयोजन करण्यात आले होते, जे पर्यावरणीय संशोधनातील जागतिक सहकार्याला प्रोत्साहन देणाऱ्या नासाच्या ग्लोब प्रोग्रामच्या उद्दिष्टांशी पूर्णपणे जुळते. ग्लोब लॅब लवकरच चांदवड, नाशिक येथील एस.एन.जे.बी.च्या स्व. सौ. के.बी. जैन कॉलेज ऑफ इंजिनिअरिंगमध्ये पूर्णपणे कार्यरत होणार आहे. हे लॅब आंतरराष्ट्रीय केंद्र म्हणून कार्य करेल, जे दुर्गम, ग्रामीण आणि शहरी भागातील लोकांना मदत करेल. हा कार्यक्रम औद्योगिक दौऱ्याचे समन्वयक प्रा. पंकज देसाई आणि कार्यक्रम समन्वयक प्रा. अमोल शाकद्वीपी, प्रा. मोनिका सुरसे, प्रा. यशराज पाटील आणि कावरी चंदन यांच्या समन्वयाने यशस्वी झाला.

आपलं महानगर | मज महानगर.com

चांदवड : एसएनजेबी अभियांत्रिकी महाविद्यालयात पालक-शिक्षक मेळावा उत्साहात



★ चांदवड । येथील श्री नेमिनाथ जैन ब्रम्हचर्याश्रम संचलित स्व. सौ. कांताबाई भवरलालजी जैन अभियांत्रिकी महाविद्यालयात संगणक विभागातर्फे पालक-शिक्षक मेळाव्याचे आयोजन करण्यात आले होते.

या कार्यक्रमात ३५ हून अधिक पालकांचा सक्रिय सहभाग दिसला, संमेलना दरम्यान पालकांचे मौल्यवान अभिप्राय आणि अंतर्दृष्टी या संमेलनाला अर्थपूर्ण आणि फलदायी बनवण्यात महत्त्वाची ठरले. विद्यार्थ्यांच्या प्लेसमेंट्स, विद्यार्थ्यांनी कोरलेल्या आशादायक भविष्यांचे प्रदर्शन आणि

शैक्षणिक आणि अभ्यासेतर दोन्ही क्षेत्रांमध्ये विद्यार्थ्यांच्या प्रगतीचे सर्वसमावेशक मूल्यांकन विषयांवर चर्चा करण्यात आली. तसेच विद्यापीठ परीक्षांमध्ये उत्कृष्ट कामगिरी करणाऱ्या विद्यार्थ्यांचा विशेष गौरव करण्यात आला.

यामुळे त्यांच्या मेहनतीची दखल घेऊन इतरांना उत्कृष्टतेसाठी प्रयत्न करण्याची प्रेरणा मिळाली. शिक्षक आणि पालक यांच्यातील संबंध मजबूत करण्यासाठी आणि विद्यार्थ्यांसाठी आश्वासक वातावरण सुनिश्चित करण्यासाठी केलेली नवीन शिक्षक-

पालक संघाची स्थापना ही एक उल्लेखनीय बाब होती. विभाग प्रमुख डॉ. के. एम. संघवी यांनी ड्रोन एक्सलन्स सेंटरसह विभागाच्या उपक्रमांचा आणि सुविधांचा अभ्यासपूर्ण आढावा दिला. या विभागामध्ये अत्याधुनिक संसाधने आणि विद्यार्थ्यांसाठी उपलब्ध नाविन्यपूर्ण कार्यक्रमांवर प्रकाश टाकण्यात आला. ज्यामुळे शिक्षण आणि तंत्रज्ञानातील उत्कृष्टतेसाठी विभागाची वचनबद्धता अधोरेखित झाली. शेवटी पालकांनी संगणक विभागाला भेट दिली आणि आयोजित मेजवानीचा आस्वाद घेतला.

Nashik Edition

Jul 15, 2024 Page No. 9

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चांदवड अभियांत्रिकीच्या विद्यार्थ्यांची गुजरातच्या रोबोटिक लॅबला औद्योगिक भेट
विद्यार्थ्यांनी घेतली रोबोटिक्सच्या तंत्रज्ञानाची प्रात्यक्षिकासह माहिती



प्रतिनिधी | चांदवड
 येथील श्री नेमिनाथ जैन ब्रह्मचर्याश्रम संचलित स्व. कांतबाई भवरलालजी जैन अभियांत्रिकी महाविद्यालयातील तृतीय वर्षातील संगणक अभियांत्रिकी शाखेच्या विद्यार्थ्यांनी अहमदाबाद, गुजरात येथील सायन्स सिटी रोबोटिक्स लॅबला औद्योगिक भेट दिली. यावेळी विद्यार्थ्यांनी रोबोटिक्सच्या अत्याधुनिक तंत्रज्ञानाची व विविध रोबोटिक प्रणालींची प्रात्यक्षिकासह माहिती घेतली. या औद्योगिक भेटीत विद्यार्थ्यांना विविध प्रकारच्या रोबोट्स, त्यांच्या कार्यपद्धती, औद्योगिक प्रक्रियांमध्ये त्यांचा कसा वापर होतो याबद्दल सखोल माहिती देण्यात आली. रोबोटिक्सच्या तंत्रज्ञानाच्या शक्यता व त्या तंत्रज्ञानाचे उद्योगांमध्ये कसे महत्व आहे हे प्रात्यक्षिकासह विद्यार्थ्यांना दाखविण्यात आले. या अनुभवामुळे विद्यार्थ्यांना रोबोटिक्सच्या व्यावहारिक प्रयोगांची जाणीव झाली व त्यांच्या अभ्यासात नाख्यपूर्ण प्रकल्पांची प्रेरणा मिळाली. विद्यार्थ्यांनी महाविद्यालयात घेतलेल्या ज्ञानाला वास्तविक उद्योगाच्या पद्धतीशी जोडण्यासाठी या औद्योगिक भेटीचे आयोजन करण्यात आले. अत्याधुनिक तंत्रज्ञानासोबत काम करून व या क्षेत्रातील तज्ज्ञांशी संवाद साधून विद्यार्थ्यांनी रोबोटिक्सच्या आधुनिक अभियांत्रिकीमध्ये किती महत्त्वपूर्ण भूमिका आहे याची सविस्तर माहिती घेतली. यामुळे विद्यार्थ्यांना त्यांच्या भविष्यातील प्रकल्पांसाठी सर्जनशीलतेने विचार करण्याची प्रेरणा मिळाली असून ज्ञानाचा प्रभावीपणे वापर कसा करावा प्रत्यक्ष अनुभवास मिळाले. या अभ्यास भेटीचे आयोजन समन्वयक प्रा. पंकज देसाई, कार्यक्रम समन्वयक प्रा. अमोल शाकडिपी, प्रा. मोनिका सुरसे, प्रा. यशराज पाटील, कावेरी चंदन यांच्या मार्गदर्शनाखाली करण्यात आले. त्यासाठी संस्थेच्या विश्वस्त व प्रबंध समितीचे पदाधिकारी, प्राचार्य डॉ. आर. जी. तातेड, उपप्राचार्य डॉ. एम. आर. संघवी, संगणक विभागप्रमुख डॉ. के. एम. संघवी यांनी मार्गदर्शन केले.

नासाची पहिली 'ग्लोब' प्रयोगशाळा एसएनजेबी महाविद्यालयात

लासलगाव/चांदवड : पुढारी वृत्तसेवा

नासाची जागतिक पहिली 'ग्लोब' प्रयोगशाळा राज्यातील एस.एन.जे.बी. अभियांत्रिकी महाविद्यालय चांदवड येथे नुकतीच कार्यान्वित झाल्याची माहिती एसएनजेबीचे प्रा. यशराज पाटील यांनी दिली. नासाच्या ग्लोबल प्रोग्रॅमअंतर्गत जगातील पहिल्या लॅबचे उद्घाटन एसएनजेबी महाविद्यालयात मान्यवरांच्या हस्ते झाले. ही प्रयोगशाळा जागतिक पर्यावरण संशोधन व विज्ञान यासाठी नवा अध्याय ठरणार आहे.

लॅबचे उद्घाटन माजी आमदार कल्याणराव पाटील, नूतन विद्या प्रसारक महाविद्यालय लासलगावचे अध्यक्ष प्रकाश पाटील यांच्या हस्ते करण्यात आले. प्रा. यशराज पाटील हे येथील माजी विद्यार्थी असून, त्यांनीच प्रयोगशाळेचे डिझाइन केले आहे. या लॅबमुळे महाविद्यालय जागतिक पर्यावरण संशोधन आणि विज्ञान क्षेत्रासाठी महत्त्वपूर्ण केंद्र ठरेल, असा विश्वास त्यांनी व्यक्त केला. ग्लोब लॅबमध्ये प्रगत तंत्रज्ञानाचा वापर करून हवामान बदल, जैवविविधता आणि जलसंपत्ती



चांदवड : येथील एसएनजेबी अभियांत्रिकी महाविद्यालयात लॅबचे उद्घाटन करताना माजी आ. कल्याणराव पाटील. समवेत डॉ. आर. जी. तातेड, प्रकाश पाटील, संदीप पाटील, राहुल पाटील, डॉ. युवराज पाटील आदी. (छाया : राकेश बोरा)

वाढविण्यासाठी सशक्त मंच ठरेल. यावेळी माजी आमदार कल्याणराव पाटील, संदीप पाटील, राहुल पाटील, सचिन



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नासाची पहिली 'ग्लोब' प्रयोगशाळा एसएनजेबी महाविद्यालयात

लासलगाव/चांदवड : पुढारी वृत्तसेवा

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चांदवड : येथील एसएनजेबी अभियांत्रिकी महाविद्यालयात लॅबचे उद्घाटन करताना माजी आ. कल्याणराव पाटील. समवेत डॉ. आर. जी. ताथेड, प्रकाश पाटील, संदीप पाटील, राहुल पाटील, डॉ. युवराज पाटील आदी. (छाया : राकेश बोरा)

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चांदवडला ड्रोन असेंब्ली कार्यशाळा

लोकमत न्यूज नेटवर्क
चांदवड : येथील श्री नेमीनाथ जैन ब्रह्मचर्याश्रम संचालित स्व. सौ. कांताबाई भवरलालजी जैन अभियांत्रिकी महाविद्यालयाच्या संगणक आणि आर्टिफिशियल इंटेलिजेन्स आणि डेटा सायन्स विभागातर्फे ड्रोन तंत्रज्ञानाच्या व्यावहारिक उपयोगांवर कार्यशाळेचे

आयोजन करण्यात आले होते. यावेळी उपस्थित विद्यार्थ्यांना ड्रोन कंपनीचे संस्थापक आशिष बच्छाव, प्रवीण परदेशी, तांत्रिक तज्ज्ञ शुभम सूर्यवंशी, ओंकार व्यवहारे आदींनी प्रशिक्षण दिले. डॉ. सुचिता जाधव यांनी डॉ. के. एम. संघवी, डॉ. आर. आर. भंडारी यांच्या मार्गदर्शनाखाली कार्यशाळेचे आयोजन केले होते.



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STUDENTS ARTICLES

Quantum Computing

Quantum computing is poised to revolutionize technology by solving problems that are currently unsolvable by classical computers. Unlike traditional systems that rely on binary processing (0s and 1s), quantum computers use qubits, which can exist in multiple states simultaneously thanks to the principles of superposition and entanglement. This enables quantum systems to perform complex calculations at speeds unattainable by conventional machines.

The applications of quantum computing are vast and transformative. In optimization, quantum algorithms can solve logistical challenges, such as supply chain management and traffic flow optimization, with greater efficiency. For instance, they can help companies minimize costs and reduce delivery times by identifying the most efficient routes. In cryptography, quantum computing presents both opportunities and threats. While it can break current encryption methods, it also enables the development of quantum-resistant cryptographic protocols, ensuring secure communication in the future.

Quantum computing is also expected to make significant contributions to artificial intelligence. By accelerating the training of machine learning models and solving complex data problems, it can enhance AI capabilities across industries. In drug discovery, quantum simulations of molecular interactions could dramatically reduce the time and cost required to develop new medications. Similarly, in material science, quantum systems can model and predict the properties of materials, leading to innovations in energy storage, electronics, and construction.

Leading companies like IBM, Google, and Microsoft are at the forefront of quantum research. Google's achievement of "Quantum Supremacy" in 2019 demonstrated the potential of quantum computers to outperform classical supercomputers in specific tasks. IBM and Microsoft continue to develop scalable quantum hardware and refine quantum algorithms, bringing the technology closer to practical applications.

Despite these advancements, quantum computing faces significant challenges. Error correction, system stability, and scalability remain critical hurdles. Quantum systems are highly sensitive to environmental disturbances, which can disrupt computations and lead to errors. Researchers are working to develop error-correction techniques and improve the reliability of quantum systems to make them viable for large-scale use.

Once these challenges are overcome, quantum computing has the potential to revolutionize industries such as weather forecasting, financial modeling, and climate research. For example, it could improve weather prediction accuracy by processing vast amounts of climate data in real time. In finance, it could optimize investment portfolios and identify market trends with unprecedented precision.

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STUDENTS ARTICLES

Generative AI and Applications

Generative AI has become a groundbreaking technology, transforming industries by leveraging advanced algorithms and machine learning models. Among the most notable advancements are Large Language Models (LLMs) such as ChatGPT, Bard, and Claude. These systems, trained on vast datasets, can produce human-like text, generate code, create visuals, and even engage in complex decision-making processes. Their versatility makes them invaluable in various sectors, driving innovation and efficiency.

In the field of education, Generative AI is reshaping learning experiences. It offers personalized tutoring by adapting to individual learning needs, helping students grasp concepts more effectively. AI can also generate customized educational content, automate administrative tasks, and provide instant feedback on assignments, allowing educators to focus on teaching rather than mundane activities. This personalized and automated approach is enhancing the quality and accessibility of education worldwide.

Healthcare is another sector experiencing significant transformation due to Generative AI. From automating medical documentation to assisting in diagnostics, AI is improving the efficiency of healthcare professionals. For instance, it can analyze patient symptoms, summarize medical histories, and predict treatment outcomes. Researchers are also using AI tools to accelerate drug discovery by analyzing complex datasets and identifying promising compounds.

Businesses, too, are harnessing the power of Generative AI to streamline operations and boost productivity. AI-powered tools automate repetitive tasks, generate marketing content, and facilitate customer interactions through advanced chatbots. These chatbots can provide personalized customer service, reducing wait times and improving user satisfaction. Additionally, Generative AI is transforming creative industries by assisting in the creation of artwork, music, videos, and more, blending human creativity with machine precision.

However, the rapid adoption of Generative AI also comes with challenges. Ethical concerns, such as biases in AI-generated content, data privacy issues, and the potential misuse of AI tools, must be addressed. Furthermore, ensuring transparency and accountability in AI decision-making is critical for building trust. To navigate these challenges, organizations need to adopt responsible AI practices and establish governance frameworks that prioritize fairness, privacy, and security.

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