







An Autonomous Institute

DEPARTMENT OF COMPUTER SCIENCE

AND ENGINEERING

PRESENTS

NEWSLETTER

Session 2023-2024









Vision of Institute

To emerge as Learning Center of Excellence in the National Ethos in domains of Science, Technology and Management.

Mission of Institute

- To strive for rearing standard and stature of the students by practicing high standards of professional ethics, transparency and accountability.
- To provide facilities and services to meet the challenges of Industry and Society.
- To facilitate socially responsive research, innovation and entrepreneurship.
- To ascertain holistic development of the students and staff members by i nculcating knowledge and profession as work practices.

Vision of Department

To become a centre of excellence for nurturing the quality Computer Science & Engineering professionals to cater the needs of industry and society.

Mission of Department

- To achieve academic excellence by imparting in-depth knowledge to the students through effective pedagogies and hands on experience on latest tools and technologies.
- Inculcating professional behavior, strong ethical values, innovative research capabilities and leadership abilities in graduates.
- To strengthen the Industry-Institute Interaction for stakeholders to become successful entrepreneurs.

About TGPCET

Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) was established in the year 2007 by Vidarbha Bahu-uddeshiya Shikshan Sanstha (VBSS), a registered society. It is a self financed Private Engineering College, which is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) Nagpur and is approved by All India Council for Technical Education, New Delhi. Also college is approved by Directorate of Technical Education (DTE), Mumbai, Maharashtra State. The Institute is Accredited with A+ (3.32 CGPA) by NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC). An Autonomous Institute affiliated to RTM Nagpur University, Nagpur.

About Department

Established with B.E. CSE in the year 2007-08 with an intake of 120 and M. Tech CSE in 2011-12 with an intake of 36. Department focus on Research and training activities are based on -

- Advanced computational methods for modeling, analyzing, and solving complex tasks in technology and science.
- Fundamental computer science methods for the analysis of large and high- dimensional data sets For the modeling and design of complex software, networking and other computational systems.
- Exposing students to the developments in the field of computing, thereby enabling them to meet the needs of the IT industry and research organizations in India and abroad.

<u>Messages</u>



I am delighted that Department of Computer Science and Engineering of Tulsiramji Gaikwad-Patil College of Engineering & Technology has published the Department magazine. The Editorial Board has done a fair job to put up facts before students, parent and community. To expressone's thought, Department Magazine is the best platform and this is what our students have expressed in terms of contributions towards the magazine. I congratulate Editorial Board for unleashing the hidden potential of the student and making this Magazine a chapter of Tulsiramji Gaikwad-Patil College of Engineering.



As the principal of the college, it is my testimony here that, in the past year, despite the challenges presented by the global landscape, our students and faculty have displayed remarkable resilience and adaptability. From groundbreaking research initiatives to artistic expressions that stir the soul, each contribution adds to the unique character of our college. As we delve into the pages of this e-magazine, I encourage you to embrace the stories, insights, and accomplishments that showcase the collective spirit of our community. It is through collaboration, understanding, and a shared commitment to excellence that we continue to shape the future of our college



At the outset, I warmly applaud TGPCET for bringing us the latest edition of the college magazine "BYTE 23". This magazine is intended to bring out hidden literacy talent of students and faculty and also to inculcate leadership skills among them. It is a great pleasure to see the creative expressions of students who had contributed. This magazine has made an earnest attempt in this direction and brought out certain aspects of the college to the eyes of the public so that they may understand and know the college even better. I strongly believe that it would be an excellent medium through which the world can learn about the potential and achievements of TGPCET. I congratulate the members of the editorial board for their tireless efforts. Wishing the magazine, a lasting success!

FROM THE HEAD OF THE DEPARTMENT



I'm excited to introduce "**NEWSLETTER**", our department's news dedicated to bridging the gap between academics and industry. Through insightful guest lectures, engaging industrial visits, and inspiring alumni stories, Byte Code enriches students' learning experiences and connects theoretical concepts with real-world applications. Explore Byte Code to see how we bring industry expertise to the classroom and showcase our commitment to educational excellence. Discover our department's achievements and innovations in each issue!

Prof. Abhimanyu Dutonde
Head of Department Computer
science engineering

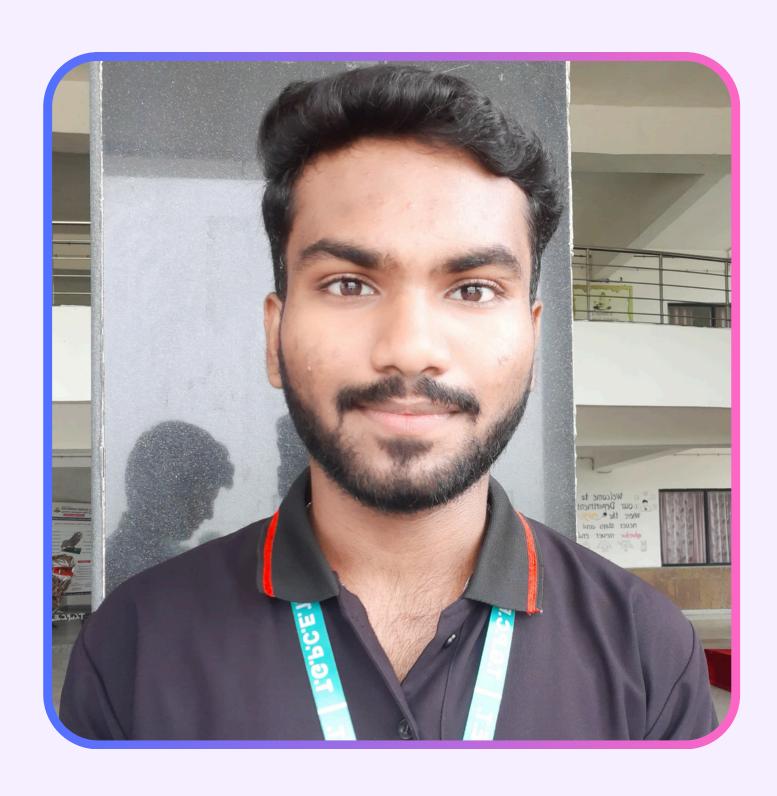
Editorial Board



Prof. Shubhkirti Bodkhe

Welcome to "NEWSLETTER", that brings you the latest from our department's vibrant community of students, faculty, and alumni! As the editor, I am thrilled to present this edition, packed with stories of innovation, excellence, and achievement. From industrial visits that take our students behind the scenes of cutting-edge companies, to guest lectures that bring industry experts to our campus, we have it all. Our publications section showcases the research and ideas that are shaping the future of technology, while our alumni stories inspire us with their journeys and accomplishments. I hope you enjoy reading Byte Code as much as we enjoyed creating it. Happy reading.

Editorial Body



Mr.Aditya Thakre
Chief Editor

Branch: CSE (3rd Sem)



Mr.Preet Gawali
Branch: CSE (3rd
Sem)



Mr.Mahesh Wadhi Branch: CSE (3rd Sem)



Mr.Piyush Narnaware Branch: CSE (3rd Sem)

<u>Faculty</u>



Prof. Ashvini Mahajan



Prof. Aditya Lavhale



Prof. Bramhadev Wadibhasme



Prof. Shubhkirti Bodkhe



Prof. Komal Naxine



Prof. Diksha Fulzele



Prof. Mrunali Jadhav



Prof. Jayant Adhikari



Prof. Anita Yadav

Guest Lecture on "Computer Network and NS2 Software's"









The CSE Department of TGPCET College organized a guest lecture on April 16, 2024, inviting Mr. Raj Arora, Director of Revat Network Nagpur, to enlighten students on the topic of "Computer Networks and NS2 Software." The event was conducted under the auspices of the ISTE and CSI Students Chapter, attracting a total of 75 students eager to delve into the intricacies of networking and simulation technology.

Guest Lecture "Selenium and Rust Technologies"

On Date 15 FEBRUARY 2024

The program was introduced as a guest lecture featuring Mr. Mayur Kirtane, a seasoned professional with over 10 years of experience in the IT industry. Mr. Kirtane's expertise in Selenium and Rust technologies made him the perfect candidate to shed light on the integration of these technologies and their significance in the field of software development. Total 114 students was present in the session.



Guest Lecture on "Generative AI"









On Date 30 APRIL 2024

The Department of Computer Science and Engineering successfully organized a guest lecture on Generative Al. Mr. Aniruddha Kalbande, the esteemed Founder of Fireblazer Pvt. Ltd., was invited to share his expertise with the students. The lecture aimed to bridge the gap between theoretical knowledge and practical applications in the field of artificial intelligence.

Industrial Visit at "Regional Remote Sensing Center-Central, Nagpur

On Date 29 APRIL 2024

The industrial visit organized by the Department of Computer Science and Engineering at Tulsiramji Gaikwad-Patil College of Engineering aims to bridge the gap between theoretical knowledge and real-world applications in the field of remote sensing.

2nd Year Student Section A

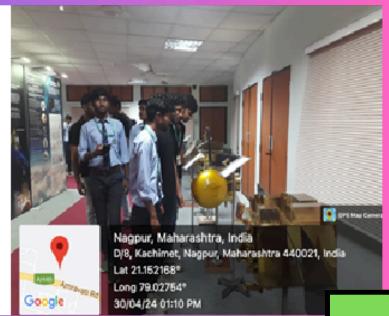






Industrial Visit at "Regional Remote Sensing Center- Central, Nagpur Nagpur". Applications"







On Date 30 APRIL 2024

The industrial visit organized by the Department of Computer Science and Engineering at Tulsiramji Gaikwad-Patil College of Engineering aims to bridge the gap between theoretical knowledge and real-world applications in the field of remote sensing.

2nd Year Student Section B

Two Days Workshop on "Python For Al"

- Day 1: On Date 29 APRIL 2024
- Introduction to Python: History, applications, and importance.
- Setting up Python environment: Installation and IDE setup.
- Basic Python commands and fundamentals:
 Syntax, variables, data types, operators, and control structures.
- Hands-on exercises: Writing and executing basic Python programs.
- Miniature game building: Overview of game development, creating a simple text-based game, implementing game logic, user input, decision making, testing, and debugging.







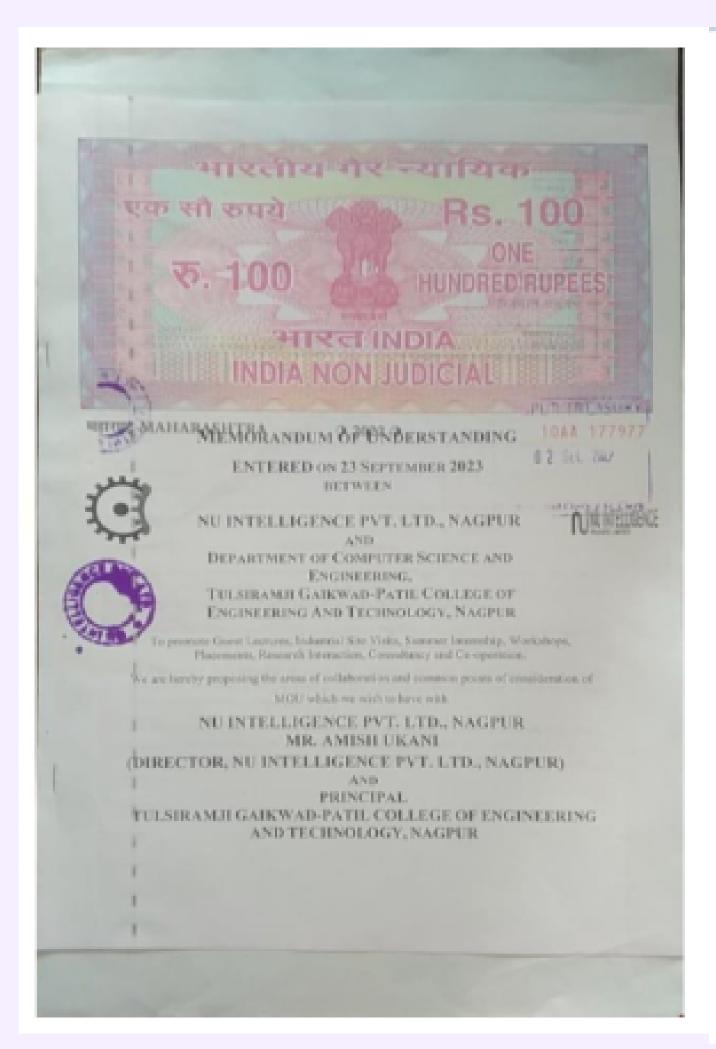


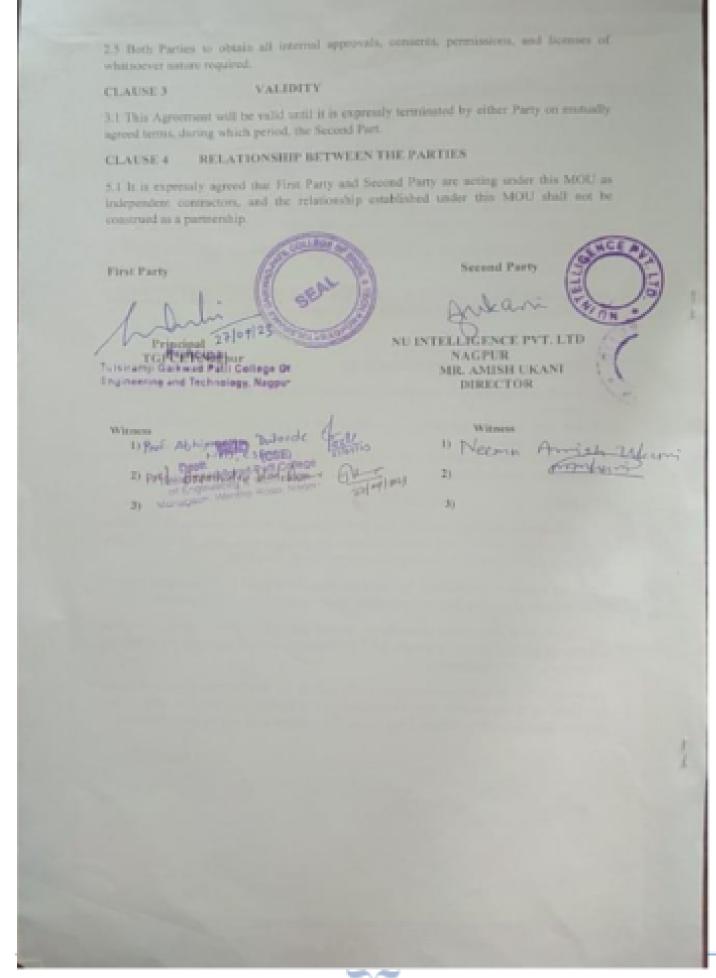


- Day 2: On Date 30 APRIL 2024
- Introduction to Artificial Intelligence:
 Definition, history, types, applications, and importance.
- Creating AI voice assistants:
 Understanding Natural Language
 Processing (NLP), Text-to-Speech (TTS),
 and Speech-to-Text (STT) technologies.
- Building a simple voice assistant using Python: Integrating TTS and STT libraries, implementing basic commands and responses, testing, and refining.

Day 2

MOU SIGNED WITH NU INTELLIGENCE PVT. LTD





Paper Publication

Sr.			Name of	Volume	Issue	Public ation	ISSN/I SBN
no.	Name of Authors	Tittle of paper	Journal	No	No	Year	No
	Shivali Tiwari	Improving the		Vol. 47	Special		
4	shivalitiwari9@gmail.com	Efficiency of			Issue		
1	Aditya Lavhale	Video Object Detection &			No. 1		
	aditya.cse@tgpcet.com	Classification					
	and the state of t	using BiLSTM					
	Jayant Adhikari	with Recurrent	IJTE (The				
	jayant.cse@tgpcet.com	Graph	Indian				
		Convolutional	Journal of				
	Abhimanyu Dutonde	Neural	Technical				0971-
	abhimanyudutonde@gmail.com	Networks	Education)			May-24	3034
	Pragati Patil		IJTE (The	Vol. 47	Special		
2	viceprincipal@tgpcet.com		Indian		Issue		
2	Abhimanyu Dutonde		Journal of		No. 1		
	abhimanyudutonde@gmail.com		Technical				
			Education)				
	Heena Bharat Kachhela	Design and					
	heena.kachhela@gmail.com	Implementation					
		of Safety Robot					
	Bramhadeo Wadibhasme	System based on				May-	0971-
	bramhadeo.cse@tgpcet.com	Controller	THORE COM			24	3034
	Abhimanyu Dutonde		IJTE (The	Vol. 47	Special		
3	abhimanyudutonde@gmail.com		Indian		Issue		
,	Shubhkirti Salode		Journal of		No. 1		
	shubhkirtibodkhe@gmail.com	Review on	Technical				
		Environment	Education)				
	Jayant Adhikari	Monitoring					
	jayant.cse@tgpcet.com	System with					
		AI/ML Review					
	Aditya Lavhale	Paper				May-	0971-
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	Jayant Adhikari		IJTE (The	Vol. 47	Special		
4	jayant.cse@tgpcet.com		Indian		Issue		
	Dhanshri Badole	Detection &	Journal of		No. 1		
	dhanshribadole1999@gmail.com	Analysis for	Technical				
		Limitations of	Education)				
	Pragati Patil	Ethernet Cable					
	viceprincipal@tgpcet.com	Connecting					
		Multiple					
	Bramhadeo Wadibhasme	Computer				May-	0971-
	bramhadeo.cse@tgpcet.com	Devices Inseries				24	3034

5	Pragati Patil viceprincipal@tgpcet.com Prajakta Helonde prajaktahelonde1397@gmail.com Bramhadeo Wadibhasme bramhadeo.cse@tgpcet.com Abhimanyu Dutonde abhimanyudutonde@gmail.com	Advanced Firefighting and Alert System Innovation	IJTE (The Indian Journal of Technical Education)	Vol. 4/	Issue No. 1	May-	0971- 3034
6	Pragati Patil, Abhimanyu Dutonde, Trishali Dhote, Aditya Lavhale	Enhancing Data Analysis Efficiency: A DBSCAN- Apriori Fusion in Map Reduce	IJTE (The Indian Journal of Technical Education)	Vol. 47	Special Issue No. 1	May-	0971- 3034
7	Abhimanyu Dutonde, Pragati Patil, Suraj Pawar, Ashwini Mahajan	Design of an Efficient Spiking Neural Networks based Proof of Transaction (PoT) Consensus for Improving Security of Banking Transactions	IJTE (The Indian Journal of Technical Education)	Vol. 47	Special Issue No. 1	May-	0971- 3034
8	Abhimanyu Dutonde, Pragati Patil, Monali Raut, Bramhadeo Wadibhasme	Enabling Seamless Interaction: A CNN-OpenCV Fusion Approach to Real-time Hand Gesture Recognition	IJTE (The Indian Journal of Technical Education)	Vol. 47	Special Issue No. 1	May-	0971- 3034

Topper's List

TOPPERS OF 3RD YEAR AUTONOMUS:

Ranks	Name of Student	Marks Out of 700	Percentage/ SGPA	
1	Saurabh Tembhurne	624	9.33	
2	Anushka Kamble	629	9.24	
2	Pranab Mondal	624	9.19	
3	Saloni Sontakke	629	9.19	

TOPPERS OF 2ND YEAR AUTONOMUS:

Rank	Name of Student	Marks Out of 700	Percentage/ SGPA
7	Rupesh Mutkule	639	9.79
2	Shejal Burele	635	9.75
3	Sheetan Khamankar	629	9.71

TOPPERS OF 1ST YEAR AUTONOMUS SECTION A:

Ranks	Name of Student	Marks Out of 650	Percentage/ SGPA
1	Astha Nikhare	573	8.8
2	Harshal Waghmare	568	8.7
3	Bhoomi Bodele	566	8.5

TOPPERS OF 1ST YEAR AUTONOMUS SECTION B:

Ranks	Name of Student	Marks Out of 650	Percentage/ SGPA
1	Sanjana Paul	579	8.9
2	Yamini Bhese	571	8.7
3	Preet Gawali	569	8.5

Faculty Awards

















Certificate



NPTEL-AICTE Faculty Development Programme



(Funded by the MoE, Govt. of India)

This certificate is awarded to



for successfully completing the course ASHWINI MHAJAN

with a consolidated score of Social Networks

(Jan-Apr 2024)

NPTEL Coordinator IIT Madras 49

%

12 Weeks

Roll No:

Duration of NPTEL course



The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.

This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16th Nov, 2023, similar to other refresher / orientation courses.

F.No. AICTE / RIFD / FDP through MOOCs / 2023





Mr. Varis Rana

Computer Science & Engineering

Selected In:

parchaa

Package:

11 LPA



Ms. Fareen Ansari

Computer Science & Engineering

Selected In:

0

Corizo Edutech, Bangaluru

Package:

6.25 LPA



Mr. Novhel Rahangdale

Computer Science & Engineering

Selected In:

Acmegrade Pvt. Ltd. Bangaluru

Package:

6 LPA

Student Awards







News Buffer

LOKMAT **** TIMES

Faculty development prog organised at TGPCET

The Department of Computer Science and Engineering and Data Science Engineering at TGPCET, Nagpur, organised an ISTE Self-Sponsored One Week Faculty Development Programme (FDP) on "Multifaceted Nature of Artificial Intelligence" recently. The online event, inaugurated by chief guest Dr Suresh Shan and other esteemed dignitaries, featured expert sessions by renowned professionals like Dr Tausif Diwan, Dr Aatul Wadegaonkar and Bastin Robins.

Supported by the college management, including chairman Dr Mohan Gaikwad-Patil and principal Dr PL Naktode, the programme was successfully coordinated by Prof. Abhimanyu Dutonde and Dr Prashant Thakare. The valedictory function highlighted AI's transformative potential and participants lauded the sessions for their practical applicability in research and teaching.

Nagpur First Page No. 3 Jun 17, 2024 Powered by: erelego.com

जेनरेटिव एआई पर गेस्ट लेक्चर

नागपुर. कंप्यूटर साइंस और इंजीनियरिंग विभाग, तुलसीरामजी गायकवाड़-पाटील एंड नेचुरल लैंग्वेज प्रोसेसिंग जैसे कॉलेज ऑफ इंजीनियरिंग एंड ऍप्लिकेशन्स की एक विस्तृत श्रृंखला टेक्नोलॉजी ने आईएसटीई और के बारे में जानकारी हासिल की। सीएसआई स्टूडेंट चैप्टर के तहत यह पहल शिक्षा जगत और उद्योग जेनरेटिव एआई पर एक महत्वपूर्ण के बीच सहयोग को बढ़ावा देने के गेस्ट लेक्चर का आयोजन किया। विशेषज्ञ अनिरुद्ध कालबंदे ने कार्यक्रम का उद्देश्य बताते हुए कहा कि छात्रों को उभरते डेटा परिदृश्य के लिए कौशल से लैस करना है।

छात्रों ने जेनरेटिव एआई सिद्धांतों, छवि निर्माण, टेक्स्ट सिथेसिस लिए कॉलेज के समर्पण को रेखांकित करती है। कंप्यूटर साइंस एवं इंजीनियरिंग विभाग के अध्यक्ष प्रो. अभिमन्यु दुतोंडे एवं अन्य प्रोफेसर इस दौरान उपस्थित थे।



गायकवाड पाटील अभियांत्रिकी महाविद्यालयात फेरवेल दिवस उत्साहात...



विदर्भ कल्याण /देवेंद्र सिरसाट

हिंगणा : तुळशीरामजी गायकवाड-पाटील अभियांत्रिकी आणि तंत्रज्ञान महाविद्यालयातील संगणक विज्ञान आणि अभियांत्रिकी विभागाने अंतिम वर्षाच्या विद्यार्थ्यांचा निरोप समारंभ नुकताच साजरा करण्यात आला. या समारंभाचे आयोजन तृतीय वर्षाच्या विद्यार्थ्यांनी केले होते हा कार्यक्रम यशस्वी रित्या पार पडला.

कार्यक्रमाच्या दिवसी विद्यार्थी आणि शिक्षकवृंद एकत्र येऊन उत्सवाची सुरुवात उत्साहवर्धक डीजे संगीताने झाली, त्यानंतर विद्यार्थ्यांचे प्रतिभावान नृत्य, संगीत आणि विविध सांस्कृतिक सादरीकरणे झाले. सर्व उपस्थितांसाठी

भोजनाची व्यवस्था केली या कार्यक्रमाचे वैशिष्ट्य म्हणजे सत्कार समारंभ, जेथे विभागप्रमुख आणि प्राध्यापक सदस्यांनी अंतिम वर्षाच्या विद्यार्थ्यांना स्मृतिचिन्ह देऊन गौरविले. प्राध्यापकांनी पदवीधरांच्या भविष्यातील प्रयत्नांसाठी शुभेच्छा दिल्या. डॉ. मोहन गायकवाड पाटील, आकाश गायकवाड पाटील, डॉ. संदीप गायकवाड, प्राचार्य डॉ. पी.एल. नाकतोडे, उपप्राचार्य डॉ. प्रगती पाटील, यांचे विशेष आभार सी.एस.ई विभागाचे प्रमुख प्रा. अभिमन्यू दुतोंडे यांनी मानले. या समारंभाचा यशस्वितेसाठी प्रा.ब्रह्मदेव वाडीभस्मे,आदित्य लव्हाळे यांचासह सर्व विभागीय प्राध्यापकांनी सहकार्य केले.



गायकवाड कॉलेज येथे व्याख्यान

नागपुर : गायकवाड पाटील कॉलेज ऑफ इंजिनीअरिंग अँड टेक्नॉलॉजीच्यावतीने कम्प्यूटर नेटवर्क्स आणि एनएस २ सॉफ्टवेअरवर व्याख्यान आयोजित केले होते. राज अरोरा यांनी या विषयावर मार्गदर्शन केले. आयएसटीई आणि सीएसआय स्टुडंट्स चॅप्टरअंतर्गत आयोजित य कार्यक्रमात द्वितीय आणि तृतीय वर्षांच्या विद्यार्थ्यांनी सहभाग घेतला. अरोरा यांनी या विषयाचे विविध पैलू उलगडले आणि विद्यार्थ्यांच्या प्रश्नांना उत्तर दिले. यावेळी, प्राध्यापक आणि विद्यार्थी उपस्थित होते.

देशोन्तती

कॉम्प्युटर सोसायटी ऑफ इंडिया विद्यार्थी अध्याय उद्घाटित

तुलशीरामजी गायकगड-पारील अभिवाजिकी आणि तंत्रज्ञान महाविद्यालयात संगणक विज्ञान सनियाविकी विभागाच्या विद्यार्थी सम्बादाचे 'उद्यादन' प्रमुख पाहुणे सीएसआय विद्यार्थी चेंग्टर (मुंबई) अध्यक्ष हॉ. सुरेश शान यांच्या हस्ते करण्यात आले. आणि 'इम्बुलस फोरम' पुन्हा स्थापना करण्यात

यावेळी विद्यार्थी पदाधिकाऱ्यांना बॅज बद्यीस. ए-२०२३ कॉलेज टॉपरचा अध्यक्षडाँ, मोइन गायकताड-पाटील



जीवीजीआपचे उपाय्यक्ष आकाश गायकवाड-पाटील, खजिनदार डॉ. संदिप गायकवाड यांनी शैक्षणिक ਹੁਕ੍ਰਾਣਰੇਚੀ ਕਹਿਣਕੀ ਫशੀਬੇਲੀ, ਸ਼ਾਗਸੰ

टीजीपीसीईटी, डॉ. पी.एल. नाक्लोडे व उपप्राचार्य प्रा. प्रगती पाटील, सीएसई एचओडी प्रोचेसर अभिमन्य दुतांडे वांनी सहनागाने बाढवली. (बालीहर)

Service vol. Idilize Feb 3, 2000 Page 81, 48 Portured by a lekille in room