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GOGTE INSTITUTE OF TECHNOLOGY



ELECTRONICS AND
COMMUNICATION ENGINEERING
DEPARTMENT NEWSLETTER

KLS Gogte Institute Of Technology

TRON

JANUARY – FEBRUARY 2021



Dr. Dattaprasad Torse



Prof. Abhishek Deshmukh



Prashant Patil

HOD: Dr. Santosh S. Saraf

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It is my pleasure to present to you GIT EC Newsletter TRON (January February, 2021 edition). This edition highlights the achievements and contributions of the department faculties and students in various academic and co-curricular fields. The department has successfully navigated the online teaching-learning scenario. The results of the process would be validated in the off-line exam results !!! I welcome the lateral entry students to the department. This is one batch who have started their classes with the exam dates published!!!. The faculties have successfully transferred knowledge to students. Of course, with offline classes the students may lose the flexibility of moving around as in online classes, we are sure the offline mode would bring out better interaction with faculty and classmates and we are ready to take on academics, competitions in co-curricular and extra-curricular activities. I am looking forward for more contributions from students in the next edition.

- Dr. Anil B. Gavade, Faculty, KLS-GIT ECE department, published his research work titled '**A hybrid optimization-based deep belief neural network for the classification of vegetation area in multi-spectral satellite image**' in SCOPUS indexed Q3 level Journal. The article was published on 18th January 2021 in the International Journal of Knowledge-based and Intelligent Engineering Systems, pp. 363-379. DOI 10.3233/KES-170376.

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A hybrid optimization-based deep belief neural network for the classification of vegetation area in multi-spectral satellite image

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Abstract. Over the last few decades, multiple advances have been done for the classification of vegetation area through land cover, and land use. However, classification problem is one of the most complicated and contradicting problems that has received considerable attention. Therefore, to tackle this problem, this paper proposes a new Firefly-Harmony search based Deep Belief Neural Network method (FHS-DBN) for the classification of land cover, and land use. The segmentation process is done using Bayesian Fuzzy Clustering, and the feature matrix is developed. The feature matrix is given to the proposed FHS-DBN method that distinguishes the land cover from the land use in the multispectral satellite images, for analyzing the vegetation area. The proposed FHS-DBN method is designed by training the DBN using the FHS algorithm, which is developed by the combination of Firefly Algorithm (FA) and Harmony Search (HS) algorithm. The performance of the FHS-DBN model is evaluated using three metrics, such as Accuracy, True Positive Rate (TPR), and False Positive Rate (FPR). From the experimental analysis, it is concluded that the proposed FHS-DBN model achieves a high classification accuracy of 0.9381, 0.9488, 0.9497, and 0.9477 using Indian Pine, Salinas scene, Pavia Centre and university, and Pavia University scene dataset.

Keywords: Classification, multi-spectral satellite image, firefly algorithm, harmony Search algorithm, DBN, vegetation index

- Dr. Dattaprasad A. Torse, Faculty, KLS-GIT ECE department, presented his research paper on **'Classification of Epileptic Seizures using Ensemble Empirical Mode Decomposition and Least Squares Support Vector Machine'** in *International Conference on Computer Communication and Informatics (ICCCI)* at Sri Shakthi Institute Of Engineering & Technology, Coimbatore, India, in between 27th to 29th January 2021. The conference was conducted in online mode.
- Dr. Anil B. Gavade, Faculty, KLS-GIT ECE department, presented his research paper on **'Lesion Detection and Classification, using Sematic Deep Segmentation Network'** in the *4th International Conference on Smart Technologies in Data Science and Communication*. The paper was presented online on 19th February 2021.



03 | WEBINARS & EVENTS

- Dr. Veena Desai, Faculty, KLS-GIT ECE department, had conducted a webinar on **'Evolutionary Computation'** as a part of *IEEE outreach program* on 6th February 2021. The online event was conducted at **The Bangalore School**.
- Dr. Dattaprasad A. Torse, Faculty, KLS-GIT ECE department, successfully organized an ATAL Sponsored One Week **'Online Faculty Development Program'** at KLS GIT in between 11th to 15th January 2021.



- Dr. Dattaprasad A. Torse from Department of E & C Engineering received a funding of Rs. 93,000/- from AICTE Training and Learning (ATAL) academy to organize a 5-day FDP on “**Green Technology & Sustainability Engineering**” from 11th to 15th January 2021 using online mode. 154 participants from various colleges and industries attended the online FDP.



03 | WEBINARS & EVENTS

- Prof. Sneha Nargundkar, Faculty, KLS-GIT ECE department, successfully completed an AICTE Sponsored Two Week online FDP on **'Machine Learning Techniques for Imaging and Healthcare with Python'** in the duration 28th January to 12th February 2021.



- Prof. Gajanan Kadam, Faculty, KLS-GIT ECE department, had arranged a webinar on 15th February 2021 by External Experts on **'Skill Enhancement for Improving Campus Placements'**. Resource persons in that event were Mr. G. Raj Narayan, Managing Director RADEL and Dr. Mahesh Annagodumath - HR Head and Admin, RADEL.

A poster for a live webinar titled "SKILL ENHANCEMENT FOR IMPROVING CAMPUS PLACEMENTS". The event is sponsored by the Consortium of Electronic Industries of Karnataka (CEIK) and is organized by the Department of Electronics and Communication Engineering at Gogte Institute of Technology, Belagavi. The webinar is scheduled for Monday, 15 Feb 2021, from 10.30AM to 12.00PM. The resource people are Mr. G. Raj Narayan (Managing Director of Radel) and Dr. Mahesh Annagodumath (Head of HR and Admin at Radel). The poster also lists the staff coordinator (Dr. G. P. Kadam), HOD ECE (Dr. S. S. Saraf), and Principal (Dr. J. K. Kittur). A Google Meet link is provided: meet.google.com/ybs-zejz-mzh. Logos for KLS-GIT, CEIK, and various accreditation bodies are also present.



04 | ACHIEVEMENTS BY FACULTY

- KLS-GIT EC M-Tech DCN student Ms. Tejaswini Kalyani and her M-Tech project guide Dr. Saurav Mitra, from ECE Department have presented their research paper titled **'Sensor Selection for Optimal Information Utility'** in an International Conference (online mode) - Interdisciplinary Research in Technology and Management (IRTM 2021). The conference was held in the duration 26th to 28th February 2021. Dr. Saurav won the **'Best presenter'** award in that conference in the **Technical Session No 2**.



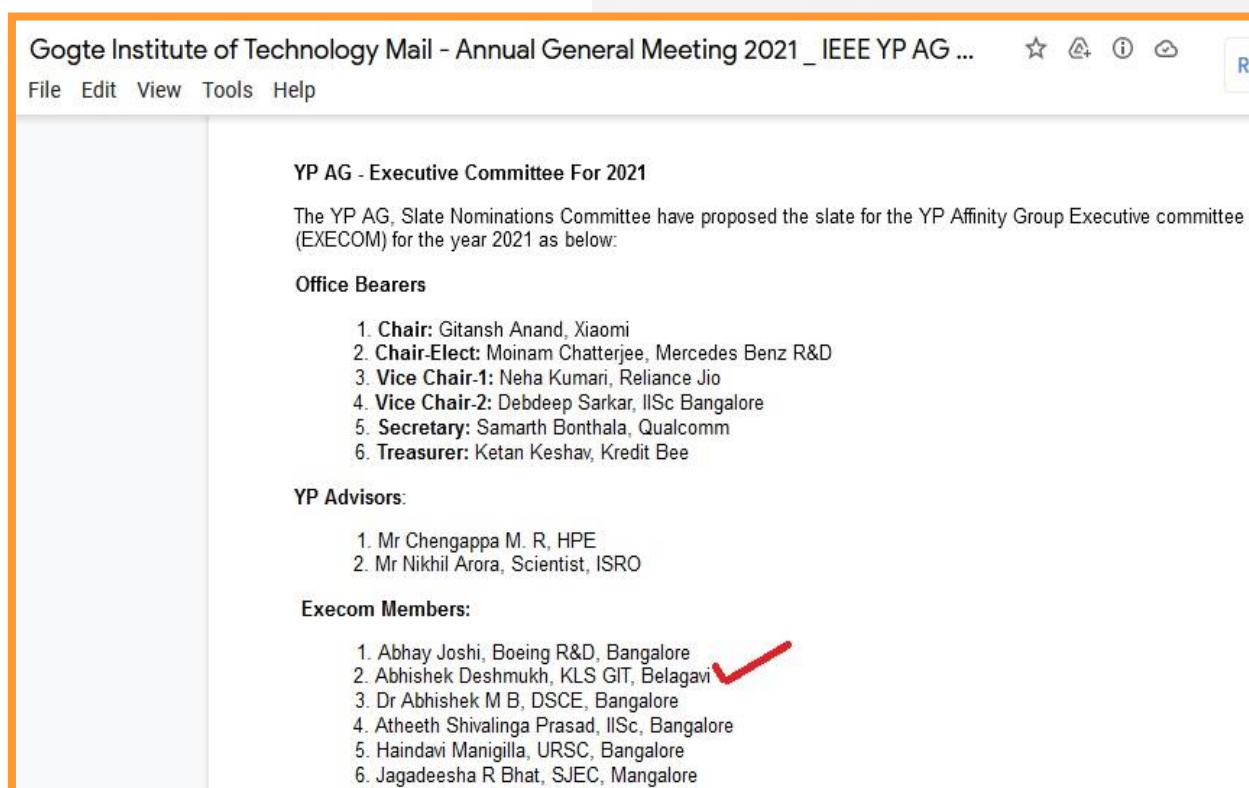
04 | ACHIEVEMENTS BY FACULTY

- Prof. Abhishek Deshmukh, Faculty, KLS-GIT ECE department, and Branch Counsellor of IEEE Student Branch of GIT had attended the **Annual General Meeting of IEEE Bangalore Section 2020** at Bangalore on 10th January 2021. Prof. Abhishek received the **'Outstanding Student Branch Website Award'** for the Year 2020 on behalf of the IEEE Student Branch of GIT for the excellent design of the website which highlights all the activities of the branch in a very meticulous fashion. Their work was highly appreciated in the IEEE AGM in Bangalore.



04 | ACHIEVEMENTS BY FACULTY

- Prof. Abhishek Deshmukh, Faculty ECE Department KLS-GIT, has been inducted into the **Executive Body** of the YP Affinity Group for the year 2021. He was a part of the Executive Body in the year 2020. The announcement was made in the IEEE Annual General Meeting of YP Affinity Group of IEEE Bangalore Section on 10th January 2021, at Bangalore.



- Dr. Saurav Mitra, Faculty, ECE Department of KLS-GIT, had delivered a talk on 15th January 2021, for ECE M-Tech students, on '**How to prepare research papers and get it published**'.

04 | ACHIEVEMENTS BY FACULTY

- Dr. Saurav Mitra, Faculty ECE Department KLS-GIT, has completed 2 weeks online training program on **'Entrepreneurship Development'** in between 1st February to 13th February 2021. The Teachers' Training Program was organized by NITTTR, Bhopal. The training was jointly sponsored and arranged by **GOI, DST and NSTEDB**.



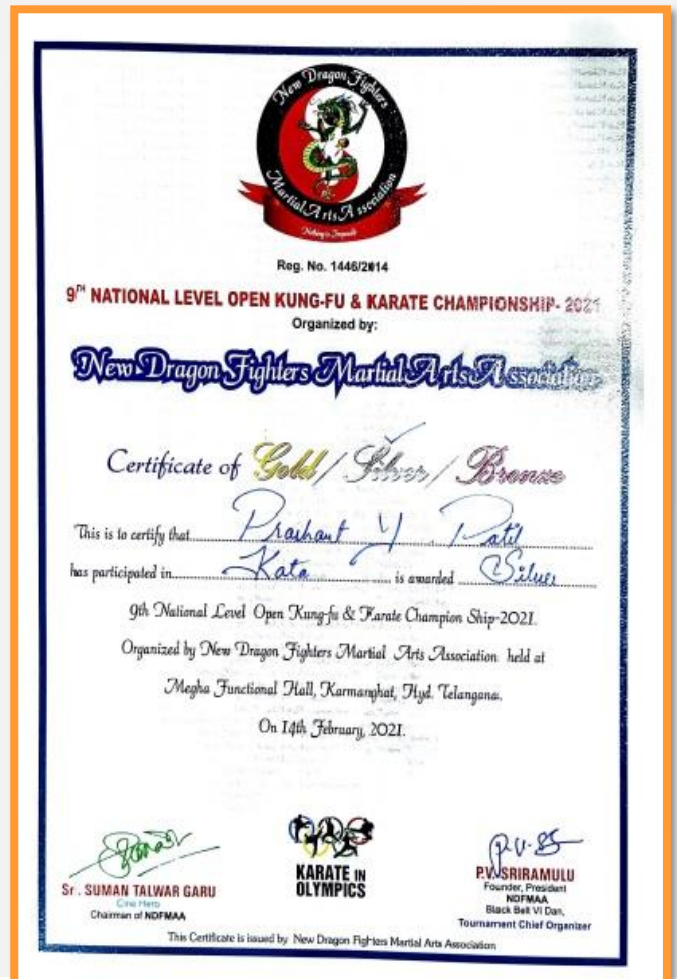
05 | ACHIEVEMENTS BY STUDENTS

- Sameer A. Attar, a 3rd year ECE student of KLS GIT, ranked 3rd in the **District Level Quiz Competition** on the topic “Elections in India and General Knowledge”. Sameer has thus qualified for the state level competition. He was awarded with a Certificate, a book ‘SPARDHA’ Karnataka Itihas, and a trophy at Zilla Panchayat Office, Belagavi on Voters day 25 January 2021. The event at Zilla Panchayat Office took place in presence of Mr. M. G. Hiremath who is the D. C. of Belagavi District
- Mr. Prashant Y. Patil, a 2nd year ECE student of KLS GIT has won **National level Karate and Kung Fu Championship** at Telangana on 14th February 2021. The event was organized by the **New Dragon Fighters Martial Arts Association**, Telangana.



05 | ACHIEVEMENTS BY STUDENTS

Achievements of Mr. Prashant Y. Patil



• Sakal – Dated: 26/1/2021



वेळगाव : वेबिनारमध्ये सहभागी झालेले तज्ञ.

जीआयटीतर्फे 'अँटिना डिझाईन'वर वेबिनार

वेळगाव : गोगटे तांत्रिक महाविद्यालयातील (जीआयटी) इलेक्ट्रॉनिक्स अँड कम्युनिकेशन शाखेतर्फे टेक्नॉलॉजी अवेअरनेस इन अँटिना डिझाईन टूबलशूटिंग युजिंग इन्टरॅक्टिव्ह पेडागोगिकल टूल्स यावर नुकतीच वेबिनार सिरिज झाली. पुण्यातील नुमेरजिन स्पॉन्सरेड कंपनीचे स्वनील गौल, आयआयआयटी नागपूर च्या डॉ. रश्मी पंधारे, वीनिर इंडिया प्रा.लि.चे (बंगळूर) सौम्यकांत प्रधान, फत्तेलाल लोहा (राजस्थान), जीआयटीचे डॉ. दत्तप्रसाद तोरसे यांनी वेबिनारमध्ये अँटिना निर्मिती व देखभाल यावर माहिती देऊन स्वतःचे अनुभव सांगितले. उद्योजक, प्राध्यापक अशा अडीचसेहून अधिक जणांनी वेबिनारचा लाभ घेतला.

• Prajavani – Dated: 24/02/2021



ಹೈದರಾಬಾದ್‌ನ ನ್ಯೂ ಡ್ಯಾಗನ್ ಫೈಟರ್ಸ್ ಮಾರ್ಷಲ್ ಆರ್ಟ್ಸ್ ಸಂಘದಿಂದ ಈಚೆಗೆ ಆಯೋಜಿಸಿದ್ದ 9ನೇ ರಾಷ್ಟ್ರಮಟ್ಟದ ಓಪನ್ ಕುಂಗ್-ಪೂ ಮತ್ತು ಕರಾಟೆ ಚಾಂಪಿಯನ್‌ಶಿಪ್‌ನಲ್ಲಿ ಚಿನ್ನದ ಪದಕ ಪಡೆದ ವಿದ್ಯಾರ್ಥಿ ಪ್ರಶಾಂತ ಪಾಟೀಲ ಅವರನ್ನು ಆಡಳಿತ ಮಂಡಳಿಯವರು ಸನ್ಮಾನಿಸಿದರು

ಪ್ರಶಾಂತಗೆ ಚಿನ್ನದ ಪದಕ

ಪ್ರಜಾವಾಣಿ ವಾರ್ತೆ

ಬೆಳಗಾವಿ: ಹೈದರಾಬಾದ್‌ನ ನ್ಯೂ ಡ್ಯಾಗನ್ ಫೈಟರ್ಸ್ ಮಾರ್ಷಲ್ ಆರ್ಟ್ಸ್ ಸಂಘದಿಂದ ಈಚೆಗೆ ಆಯೋಜಿಸಿದ್ದ 9ನೇ ರಾಷ್ಟ್ರಮಟ್ಟದ ಓಪನ್ ಕುಂಗ್-ಪೂ ಮತ್ತು ಕರಾಟೆ ಚಾಂಪಿಯನ್‌ಶಿಪ್‌ನಲ್ಲಿ ನಗರದ ಕೆಎಲ್‌ಎಸ್ ಜಿಬಿಟಿಯ 3ನೇ ಸೆಮಿಸ್ಟರ್‌ನ ಇ ಅಂಡ್ ಸಿ ವಿಭಾಗದ ವಿದ್ಯಾರ್ಥಿ ಪ್ರಶಾಂತ ಪಾಟೀಲ ಚಿನ್ನ

ಮತ್ತು ಕಚಾ ಸ್ಪರ್ಧೆಯಲ್ಲಿ ಬೆಳ್ಳಿ ಪದಕ ಗೆದ್ದಿದ್ದಾರೆ.

ಅವರನ್ನು ಕೆಎಲ್‌ಎಸ್ ಜಿಬಿಟಿ ಆಡಳಿತ ಮಂಡಳಿ ಅಧ್ಯಕ್ಷ ಎಂ.ಆರ್. ಕುಲಕರ್ಣಿ, ಪ್ರಾಂಶುಪಾಲ ಡಾ.ಜಯಂತ ಕಿತ್ತೂರ, ಡೀನ್ ಪ್ರೊ. ಸತೀಶ್ ದೇಶಪಾಂಡೆ, ಜಿಮ್ಮಾನಾ ಅಧ್ಯಕ್ಷ ಪ್ರೊ.ರಮೇಶ್ ಮೇದಾರ, ನಿರ್ದೇಶಕರಾದ ಡಾ.ಪಿ.ವಿ. ಕಡಗದಕ್ಕೆ ಹಾಗೂ ಕ್ರಾಂತಿ ಕುರಣಕರ ಅಭಿನಂದಿಸಿದ್ದಾರೆ.

• Samyukta Karnataka – Dated: 24/02/2021



ಹೈದರಾಬಾದ್‌ನ ನ್ಯೂ ಡ್ಯಾಗನ್ ಫೈಟರ್ಸ್ ಮಾರ್ಷಲ್ ಆರ್ಟ್ಸ್ ಅಸೋಸಿಯೇಶನ್ ಆಯೋಜಿಸಿದ್ದ 9ನೇ ರಾಷ್ಟ್ರೀಯ ಮಟ್ಟದ ಓಪನ್ ಕುಂಗ್-ಪೂ ಮತ್ತು ಕರಾಟೆ ಚಾಂಪಿಯನ್‌ಶಿಪ್‌ನಲ್ಲಿ ಕೆಎಲ್‌ಎಸ್ ಜಿಬಿಟಿಯ 3ನೇ ಸೆಮಿಸ್ಟರ್ ಇ&ಸಿಯ ವಿದ್ಯಾರ್ಥಿ ಪ್ರಶಾಂತ ಪಾಟೀಲ ಚಿನ್ನದ ಪದಕ ಗೆದ್ದಿದ್ದಾರೆ. ಕೆಎಲ್‌ಎಸ್ ಜಿಬಿಟಿಯ ಆಡಳಿತ ಮಂಡಳಿಯ ಅಧ್ಯಕ್ಷರಾದ ಎಂ ಆರ್ ಕುಲಕರ್ಣಿ, ಪ್ರಾಂಶುಪಾಲರಾದ ಡಾ.ಜಯಂತ ಕಿತ್ತೂರ, ಡೀನ್ ಪ್ರೊ. ಸತೀಶ್ ದೇಶಪಾಂಡೆ, ಜಿಮ್ಮಾನಾದ ಅಧ್ಯಕ್ಷ ಪ್ರೊ. ರಮೇಶ್ ಮೇದಾರ, ನಿರ್ದೇಶಕರಾದ ಡಾ. ಪಿ.ವಿ. ಕಡಗದಕ್ಕೆ ಬಹುಮಾನ ವಿಜೇತರನ್ನು ಅಭಿನಂದಿಸಿದ್ದಾರೆ.



PLACEMENTS OFFERS SECURED BY EC STUDENTS (JAN-FEB 2021)



KLS Gogte Institute Of Technology



07 | CAMPUS PLACEMENT OFFERS

- Bharat Rathod got placed in **Neeyamo Works** on 18th January 2021. He is offered an initial pay package of **3 Lakhs per annum**.



- Akshay S Yadur got placed in **Mistral Solutions** on 12th February 2021. He is offered an initial pay package of **5.1 Lakhs per annum**.



GIT – EC NEWSLETTER COMMITTEE

FACULTY IN-CHARGE



Dr. Saurav Mitra



Prof. Abhishek Deshmukh



Prof. Ramesh Koti

EXECUTIVE COMMITTEE (3rd Year, EC)

Tech Lead/Management

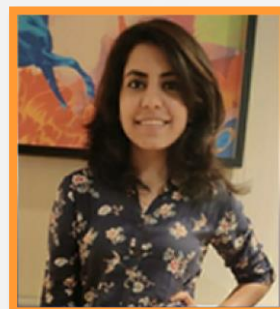


Shikha Shetgeri

Editors



Ashwini Kodlimath



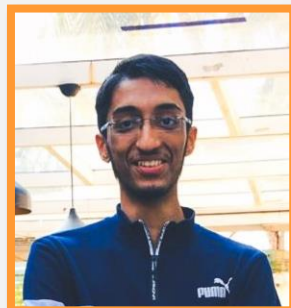
Sakshi Jamnani

Management/Data Collection

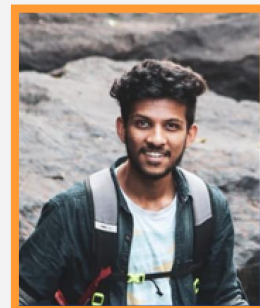


Shweta Yargatti

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Pratik Nadgouda



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