

VOL 12

JUNE 2024

RCET RAPUR The official newsletter of Krishna Vikash HEI Raipur



VISION

TO CONTRIBUTE TO THE PROGRESS OF THE STATE, NATION AND HUMANITY AS A WHOLE PROVIDING EDUCATION THROUGH RESEARCH AND INNOVATION TO THE FUTURE CITIZENS AND CREATING A NEW ORDER OF PEACE AND PROSPERITY.

MISSION

TO PAVE A PATH FOR THE STUDENTS TO TREAD CONFIDENTLY, GAINING KNOWLEDGE AND SKILLS THROUGH THAT THEY MAY USE TO TAKE THE NATION TO THE PINNACLES OF SUCCESS.

Connect with us:

- https://www.instagram.com/krishna_vikash_raipur
- (f) facebook.com/profile.php?id=100094252674380
- Info.rungtaraipur@gmail.com

MEET THE TEAM

EDITORIAL DESK

Dear Readers,

Greetings from the editorial desk of KVIT!

This month at KVIT has been marked by a series of enriching activities aimed at holistic student development and fostering a nurturing environment for academic excellence.Continuing our dedication to student welfare, we organized a comprehensive career counseling session for ITI and Diploma students. The event aimed to guide them towards promising career paths, ensuring a bright future ahead.In our search of academic excellence, KVIT hosted a faculty development program focused on continuous evaluation and mentorship. This initiative aims to empower our faculty with updated pedagogical tools and knowledge, thereby enhancing the quality of education imparted.In line with our environmental supervision, KVIT actively participated in World Environment Day by distributing water pots and launching the Save Birds, Save Environment drive. Through these initiatives, we inspire our students to uphold environmental conservation and sustainability.We commenced June with great enthusiasm as we celebrated Yoga Day, promoting physical and mental well-being among our students and staff. The peaceful morning session underscored our commitment to health and mindfulness.We take immense pride in acknowledging the achievements of our students. Heartfelt congratulations to the top achievers from the first year! Your dedication and hard work truly set a benchmark for excellence.At KVIT, we prioritize holistic development. Our commitment is further reflected in the timely conduction of weekly seminars, where students engage in public speaking and explore deep into their subjects, developing a culture of academic curiosity and confidence. In conclusion, at KVIT, every effort is dedicated to nurturing a helpful learning environment that ensures the all-round development of our students. Together, let's continue striving for excellence and shaping a brighter future.

WARM REGARDS,

DR. RITESH KUMAR DEWANGAN, ACADEMIC COORDINATOR & HOD MECHANICAL ENGINEERING , KVIT , RAIPUR



MEET THE TEAM

EDITORIAL BOARD



DR. PRAGYA AWADHIYA CHIEF EDITOR



MRS. PALLAVI BHAIRAM CO-EDITOR & DESIGNER



DR. RITESH DEWANGAN ADVISORY MEMBER





DR. GARGI SHAKNKAR VERMA DR. PRATIBHA SHRIVASTAV ADVISORY MEMBER ADVISORY MEMBER



DR. PALLAVI KHOBRAGADE ADVISORY MEMBER



PRATIKSHA PODDAR ADVISORY MEMBER



HAPPY SINGH CSE 4TH SEM



KHUBCHAND DEWANGAN CSE 4TH SEM



Happy BIRTHDAY

To Our Esteemed Managing Director

Wishing you a day filled with joy and a year filled with success.

Your leadership, vision, and dedication inspire us all every day.

KEEP SHINING AND SMILING ALWAYS.

Vivek Dasari

Managing Director Krishna Vikash Group of Institution

Wishing a very happy birthday to the young Odynamic leader of krishna vikash Your leadership, vision, and dedication have been an inspiration to us all. Wishing you a year filled with success, happiness, and good healt.

ACADEMIC ACHIEVEMENTS CONGRATULATIONS





Bhavesh Baghel Krishna Dwivedi B.TECH[AI-ML] SEM-1 B.TECH[CSE] SEM-1 78.80% 75.20%







Renuka Nayak Devanand Chandrakar Vikash Sahu B.TECH[CSE] SEM-1 B.TECH[CSE] SEM-1 B.TECH[AI-ML] SEM-1 68.70% 73.70% 70.30%



JavKishan Nishad B.TECH[CSE] SEM-1 B.TECH[CIVIL] SEM-1 B.TECH[AI-ML] SEM-1 B.TECH[CSE] SEM-1 DIPLOMA CIVIL ENGG. 68.50%



Monika Sahu 66.40%



Abhishek Tiwari

66.30%

Sonali Parida

66.10%



Sachin Dewangan 77.60%

Recognizing outstanding academic performance with pride and joy.

Join us in celebrating their remarkable success!

WEEKLY SEMINAR OF B.TECH II SEM STUDENTS







CAMPUS VISIT

Group of 55 students from ITI Heerapur, Raipur on 14 june 2024 came together at KVIT for a special campus visit session. Each student had their own dreams and interests. The session was all about helping them figure out what they wanted to do in the future. Dr. Ritesh Dewangan, Professor Mechnical & Dr. Pallavi khobragade, Assistant Professor Civil shared their wisdom and advice, making things easy to understand. By the end of the day, the students felt more confident and excited about their future.









SOCIAL RESPONSIBILITY

Career counseling sessions were organized for Diploma and ITI students at ITI Mova, ITI Heerapur, Raipur, ITI Berla ,Polytechnic College, Kanker and Dhamtari . The aim was to inspire students towards higher education by introducing them to future courses offered at our institute and providing information on fee structures. Personalized interactions were conducted with individual students.Students also participated in campus visits and explored our laboratories.









NSS ACTIVITY IN COLLABORATION WITH ABVP

On the Occassion of "World Environment Day" NSS conducted " SAKORA DISTRIBUTION DRIVE" on 5 june 2024 in collaboration with ABVP and Mr. Kishor kumar sahu, NSS Programme Officer at college campus, Raipur.





INTERNATIONAL YOGA DAY

At Krishna Vikash Educational Campus, Raipur, International Yoga Day was celebrated joyfully on 21 June 2024 . Students and teachers came together in the morning to learn and practice different yoga poses. The event highlighted how yoga benefits our body, mind, and spirit







FACULTY DEVELOPMENT PROGRAM

ENHANCING EDUCATORS: 7 DAYS FACULTY DEVELOPMENT PROGRAM WAS CONDUCTED AT KVIT FOR ENHANCING EXCELLENCE IN EDUCATION















FACULTY DEVELOPMENT PROGRAM









RESEARCH & DEVELOPMENT PROGRAM



ORIGINAL RESEARCH ARTICLE

Fault Diagnosis of Rolling Element Bearing with Operationally **Developed Defects Using Various Convolutional Neural Networks**

ra Sahu - Ritesh Kumar Dewangan - Surendra Pal Singh Matharu

Submitted: 22 January 2024/in revised form: 5 March 2024/Accepted: 12 March 2024 © ASM Improvement 2024

D. Salu (55) University Tracking Department, CSVTU, Bhilai, Chhattigath 491100, Judia

L Dewangan gta College of Engineering and Technology, Raiput, 2017 code (2022). India

Published online: 22 April 2024

5. Mathary and Institute of Technology (NIT), Raipar, Chhattagarh Mit. Indu.

Abstract. Refling element bearings are critical building hicks of any retraining machines. Achieving efficitive and precise fault diagnosis through various neural network nodels pilvys a privatal role in sexualing the accuracy part and anyonic of rolling element bearing. This research paper proposated comparative maky of artificial sexual network (ANN), 1-0 CNN, mals-lapet 1-D CNN, and 2-D CNN in the appendix and accurate speed of 800 pps along with radial load of 15 KH ill the development of naturally occurring operation and accurate speed of 800 pps along with radial load of 15 KH ill the development of naturally occurring operation and accurate speed of 800 pps along with radial load of 15 KH ill the development of naturally occurring operation and accurate speed of 800 pps along with radial load of 15 KH ill the development of naturally occurring operation would neuron Articoxia thereing components. The proposed model having a confluence making particle and the spectral of the spectral and accurate spectral of the model was configured by implementing the categorical consentropy loss function and Adam optimier. Evaluation of the neural neuron horis and securifications, including antoresolitis, aipfanes, gas nur-broing accurate spectral of the spectral optimies and accurate spectral optimies and score and active spectral development of the neural neural neural network models was performed using a confusion marit, and is SNE mathetic applications, including antersolitis, aipfanes, gas nur-broing accurate spectral optimies in neural methics and and applications, including the categorial consentropy loss function and accidents, mentioning and configure antibuted to bearing fails (E), leading to diminished accidents, mentioning and elements the and accidents, mentioning and elements and and context and the special concentrate the degradation of bearing information and and and applications, including anterior development and and bactive anore accurate the desting and conter the re Introduction Reding element bearings are considered to be a vital ele-mont in all retaring machines. These bearings are constantly operating under various conditions and are uti-lized in a diverse array of industrial and sumportation applications. Including autoencodelse, airplanes, gas tur-burse, electric generators, space shuttles, etc. [1, 2]. Under working circoursespring, microarea in the filippe hold and speed on the bearing control. Sufficient and sumport filipped and the starting contact sufficient and sufficient arithwate a bearing factor [2], leading to dismissibility accuracy, availability, safety, reliability, and cost-effic-ing or bearing factor [2]. Including the dismissibility faction disposes and conditioning monitoring of the machine is a highly valuable research area in industrial and aca-dential, view machine and the signations because even by defect on the machine is increasing the bear-terionily and the condition monitoring of the machine terionic y defect on the machine is increasing the tybeation levels [6]. Other condition monitoring of the machine levels [6]. Other condition monitoring of the machine levels [6]. Other condition monitoring in the instances in industrial levels [6]. Other condition monitoring in the instances in the in-levels [6]. Other condition monitoring in the instances in the in-levels [6]. Other condition monitoring in the instances in the in-levels [6]. Other condition monitoring in the instances in the in-stance in the instances in the instances in the in-stance in the instances in the instances in the instances in the in-stance in the instances in the in-instances in the inst oil analysis, thermography, acoustic emissions, and ultra-unic testing. Vibration analysis is often preferred because

1 Springer

Congratulations



Dr. Ritesh Kumar Dewangan Professor, Mechanical Engineering Academic Coordinator Rungta College of Engineering & Technology, Raipur For publication of Research Paper in Journal of Failure Analysis and Prevention Topic : "Fault Diagnosis of Rolling Element Bearing with Operationally Developed Defects Using Various Convolutional Neural Networks" DOI/Link: https://doi.org/10.1007/s11668-024-01919-5

Krishna's Vikash Group of Institutions, Raipur Campus



Build your career with Krishna's Vikash Group

A Great Place **TO LEARN** Don't wait for opportunity, **CREATE IT.**

Courses Offered

ENGINEERING

- B.Tech. Civil / Computer Science / CSE (AI) / CSE (AI & ML) / Electrical / ET / Mechanical Engg.
- M.Tech. Computer Science / Thermal
- Polytechnic Civil / Electrical / Mechanical

PHARMACY

D. Pharma
 B. Pharma
 M. Pharma*

Why Vikash Group?

Strong academic interactions and exchanges for the benefit for the students and the faculties.

Facilities for technology incubation and innovation management.

Promote techno-entrepreneurship.

Curriculum innovation commensurate to technology changes.

Produce high quality, professionally well prepared human resource in engineering and technology disciplines.

> Promote all round development of students & create a sense of social responsibility.

SCIENCE, COMMERCE & MANAGEMENT

- BBA BCA
- B.Com. (Computer Application)
- B.Sc. Biotechnology (Botany & Zoology)
- B.Ed.
 PGDCA

* Subject to approval of the Regulatory Body.

