



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

“TECH SAGA”

A News Letter of CSE & IT Department



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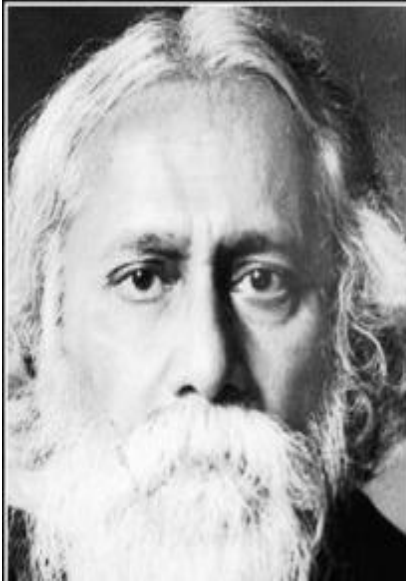
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- Shrishti Gangil, Department of CSE & IT
- Giriraj Soni, Department of CSE & IT

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A teacher can never truly teach unless he is still learning himself. A lamp can never light another lamp unless it continues to burn its own flame. The teacher who has come to the end of his subject, who has no living traffic with his knowledge but merely repeats his lesson to his students, can only load their minds, he cannot quicken them.

— Rabindranath Tagore —

PUBLICATIONS IN JOURNALS

1. Shaheen Usmani, **Amit K. Manjhvar**, Gaurav Sharma, “A Comprehensive Review of Pattern Warehousing Technique” Intentional Journal of Engineering Development and Research, Volume 7, Issue II, Apr 2019.
2. Shaheen Usmani, **Amit K. Manjhvar**, “Air Quality Index Class Prediction using Data Mining Techniques” International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 7, Issue VI, June 2019.
3. Deepti Gupta, **Rajeev Kumar Singh**, “A Survey on Disease Detection in Plant using Image Processing Techniques”, Volume 7, Issue VI, International Journal for Research in Applied Science and Engineering Technology (IJRASET), ISSN : 2321-9653, Volume 7, Issue VI, June 2019.
4. Deepti Gupta, **Rajeev Kumar Singh**, “Disease Detection in Plant using Artificial Neural Network”, Volume 7, Issue VI, International Journal for Research in Applied Science and Engineering Technology (IJRASET) , ISSN : 2321-9653, Volume 7, Issue VI, June 2019.
5. Divyarthi Modi, **Jamvant Singh Kumare**, “A comprehensive study on Image Defogging Techniques” International Research Journal of Engineering and Technology, Volume 06, Issue4, Apr 2019.

6. Anjali Kaushik, **Abhilash Sonker**,“A Novel Approach to Improve Delivery Ratio in DTN Routing” Journal of Emerging Technologies and Innovative Research, Volume 6,Issue 4, April 2019.
7. Sudipti Banerjee, **Amit Kumar Manjhvar**,“Rainfall Prediction for socio economic benefits using Machine learning over grid region of India”Journal of Emerging Technologies and Innovative Research, Volume 6,Issue 6, June 2019.
8. Nicky Upadhyaya, **Jaimala Jha**, “A review –Image segmentation using soft computing Techniques”, International journal for research in applied science and engineering, Volume 7 issue 7, May 2019.
9. Megha Singhal, **Jaimala Jha**,“A survey on Image clustering using soft computing Techniques” International journal for research in applied science and engineering, Volume 7,Issue 7, May 2019.
10. Kriti Tomar, **Jaimala Jha**, “A survey on binarization Techniques for degraded documents”International journal for research in applied science and engineering, Volume 7 issue 7, May 2019.
11. Vaibhav Kumar Dubey, **Punit Kumar Johari**, “Convolutional Neural Networks and Architectures: A Brief Overview”,International Journal of Emerging Technologies and Innovative Research,Volume 6, Issue 5, May 2019.
12. Monika Dandotiya, **Mahesh Parmar**, “A Survey in Data Mining Prospective for handling Uncertainty and Vagueness”International Journal of Computer Sciences and Engineering (JCSE), Volume 7, Issue 4, April 2019.
13. Rajeev Goyal, Arvind K. Upadhyay, **Sanjiv Sharma**, Pankaj Kumar Mishra “Trust Factor Organization for Trust Prediction in Online Social Network”International Journal of Innovative Technology and Exploring Engineering (IJITEE),Volume 8 Issue 7,May, 2019.
14. Rajeev Goyal, **Sanjiv Sharma**, Arvind K. Upadhyay, Pankaj Kumar Mishra,“Pair-Wise Trust Prediction Employing Matrix Factorization for Online Social Network”International Journal of Engineering and Advanced Technology (IJEAT),Volume-8 Issue-5, June 2019.
15. Deeksha Kushwah, **Rajni Ranjan Singh**,Deepak Singh Tomar,“An Approach to Meta-Alert Generation for Anomalous TCP Traffic”Communications in Computer and Information Science book series (CCIS, volume 939) Springer, 30 April 2019.

16. Shraddha Pandit, Piyush Kumar Shukla, **Akhilesh Tiwari**, Prashant Shukla, “Comparative Exploration of Compression and Decompression Impact on Fractal Video” Journal of Advanced Research in Dynamical and Control Systems, Volume 11, Issue 2, May 2019.
17. Uday Pratap Singh, Sanjeev Jain, Rajendra Kumar Gupta, **Akhilesh Tiwari**, “AFMBC for a class of Nonlinear Discrete-Time Systems with Dead Zone” International Journal of Fuzzy Systems, Vol. 21, Issue 4, June 2019.
18. Gaurav Sharma, **Akhilesh Tiwari**, “Data Analytics Model for Optimal Crop Management” International Journal for Research in Applied Science & Engineering Technology (IJRASET) Volume 07, Issue 06, June 2019.
19. Akanksha Gahoi, **Akhilesh Tiwari**, “Data Mining Techniques for Prediction of Wheat Crop Production” International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 07, Issue 06, June 2019.
20. **Khushboo Agarwal** “Effective Preprocessing Technique for Deep Underwater image Enhancement” International Conference on Intelligent Computing & Smart Communication (ICSC-2019) 19-21 April 2019.
21. Bulbul Agrawal, Shradha Dubey, **Manish Dixit**, “Standard Statistical Feature for Facial Images using Principal Component Analysis and its comparative study with Independent Component Analysis”, International Conference on Intelligent Computing & Smart Communication (ICSC-2019), Tehri, Uttarakhand.
22. Anjali Kaushik, **Abhilash Sonker**, “A Novel Approach to Improve Delivery Ratio in DTN Routing” Volume 6, Issue 4, April 2019 in Journal of Emerging Technologies and Innovative Research, ISSN No. 2349-5162.

PHD AWARDED

Mr. Vikram Rajpoot has been Awarded Ph.D degree in the subject Information Technology (Engineering) Under the Supervision of **Dr. Akhilesh Tiwari, Prof. & Head CSE & IT** Department MITS Gwalior from Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya (MGCGV), Chitrakoot, Satna (M.P).

ACTIVITIES ORGANISED

ACM Student Chapter: ACM Student Chapter organized Recursive Assault 2.0 on 6th -7th April 2019. It was followed by two competitions:

- I. FIFA - 40 students participated in the event.
- II. PUBG - 52 students participated in the event.



FACULTY ACCOLADES

1. **Prof. Rajeev Kumar Singh** attended one week GIAN course on Introduction to Image based modeling and simulation: Applications in Musculoskeletal Biomechanics, 22-26 April 2019.
2. **Prof. Jaimala Jha&Prof. Khushboo Agarwal** Attended one week Course in NIT Wrangle on "Big Image Data analysis using Machine learning" during 27 to 31 May 2019.
3. **Prof. Vikas Sejwar** Attended STC course on in "Research Trends in Wireless Communication System" Dr. B.R.Ambedkar NIT Jalandhar, during 25-29 May, 2019.
4. **Lav Upadhyay, Aditya Singh, Aishwarya, Arun Rana, Dheeraj Gurjar, Juhi Pruthi, Julie Kumari, Lav Upadhyay, Mir Shahnawaz Ahmad, Namrata Agrawal, Pooja Agrawal, Ram Pravesh, Santosh Sahu, Sheo Kumar, Shivangi Garg, Shweta Patel, Sneha Garg** attended by 18 TEQIP faculties FIP under the MHRD initiative on "Advance Pedagogy and Digital Tool" from June 24-28 June ,2019.
5. **Lav Upadhyay** attended Faculty Development Program on Deep Learning & Applications at RTU Kota 27-31 May 2019.
6. **Santosh Sahu**, completed 12 week course of "Cryptography" under Faculty Development Program via NPTEL in Jan-April 2019.
7. **Pooja Agrawal**, completed 8 week course of "Machine Learning" under Faculty Development Program via NPTEL in Jan-April 2019.
8. **Lav Upadhyay** attended Faculty Development Program on Network Security at RTU KOTA 20-24 May 2019.
9. **Aishwarya**, completed 8 week course of "database Management Systems" under Faculty Development Program via NPTEL in Jan-April 2019.
10. **Sneha Garg**, completed 8 week course of "Introduction Automata language and computation" under Faculty Development Program via NPTEL in Jan-April 2019.

STUDENT ACCOLADES

1. **Akshada Wakankar**, student of CSE, got first position in poetry organized by EC Department.
2. **Ankita Jadhav**, student of CSE I Year, successfully qualified in “Problem Solving through Programming in C” course run under NPTEL in Jan-April 2019.
3. **Anubhav Gupta**, student of CSE I Year, get **ELITE** certification in “Problem Solving through Programming in C” course run under NPTEL in Jan-April 2019.
4. **Apoorva Gupta**, student of CSE I Year, successfully qualified in “Problem Solving through Programming in C” course run under NPTEL in Jan-April 2019.
5. **Harshika Magaraiya**, student of CSE I Year, successfully qualified in “Problem Solving through Programming in C” course run under NPTEL in Jan-April 2019.
6. **Janhvi Singhal**, student of CSE I Year, successfully qualified in “MACHINE LEARNING” course run under NPTEL in Jan-April 2019.
7. **Srashti Gangil**, student of CSE I Year, got **ELITE+SILVER** certificate in “Problem Solving through Programming in C” course run under NPTEL in Jan-April 2019.



LATEST COMPUTER TEHNOLOGIES

(DIY PROJECT)

The Think Tiny is a miniature laptop computer with a 0.96 inch display and a design that's heavily inspired by Lenovo/IBM ThinkPad style. There's even a TrackPoint-like pointing nub. While the device isn't exactly a full-fledged computer, you can use it to play simple games including Snake, Tetris, and Lunar Landar. To build the Think Tiny, Klinger created a 3D-printed case and crammed a 128 x 64 pixel OLED display, an ATtiny1614 microcontroller, a 300 mAh battery, and other components inside.



HARVARD SCIENTISTS INVENTED A NEW BANDAGE INSPIRED BY FETAL SKIN

Here's a nifty if still early-in-development bit of science. Scientists said they've created a novel type of dressing that could rapidly heal all sorts of wounds. The gel-based, heat-activated design was inspired by the Wolverine-like skin we have when we're in the womb.



It's well known that our fetal skin can completely regenerate itself when injured, without scarring. This happens, at least partly, because embryonic cells produce protein fibers that quickly and tightly close up and contract the skin surrounding a wound. As adults, our skin cells can still do this to an extent, but nowhere to the same degree.

The research team, which also includes scientists from McGill University in Canada, say they've found a way to coax our skin back into its younger self, healing-wise.

DISCOVERY OF A 'HOLY GRAIL' WITH THE INVENTION OF UNIVERSAL COMPUTER MEMORY:

A new type of computer memory to solve the digital technology energy crisis has been invented and patented by scientists. The device is the realization of the decade's long search for a 'Universal Memory' to replace the \$100 billion market for Dynamic Random Access Memory (DRAM) and flash drives. It promises to transform daily life with its ultra-low energy consumption, allowing computers which do not need to boot up and which could sleep between key strokes.

