



July – October 2017

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

TECH SAGA

The newsletter of CSE & IT department



Editor's Note

A warm welcome to the new group of enthusiastic students in our family. We as a team are heading towards making academics a force of personal growth and opportunity for all. In this upcoming time, on one hand where the department is preparing to organize various events and on the other the IT giants are planning to visit the campus for recruitment. I wish every student best of luck for their ambitions.

Dr. R.K. Gupta
HOD, CSE & IT Dept.

Editorial board -

Faculty Members -

- Prof. Amit Kumar, Assistant Professor, Dept. of CSE & IT
- Prof. Punit K. Johari, Assistant Professor, Dept. of CSE & IT

Student Members -

- Sparsh Verma, CSE final year, Department of CSE & IT
- Sonali Bansal, CSE final year, Department of CSE & IT

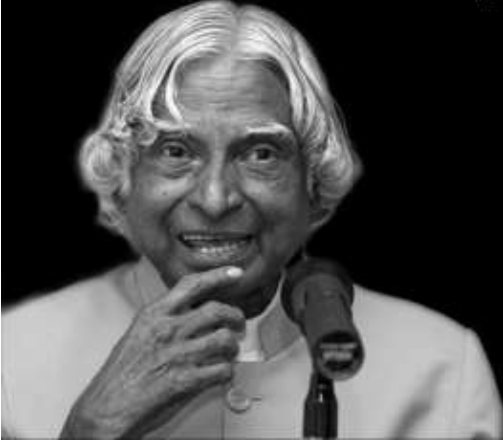
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*Dream is not the thing you see in sleep
but is that thing that doesn't let you sleep.*

- Dr. Abdul Kalam



FACULTY OUTREACH

1. **Dr. Manish Dixit**, Associate Professor, Dept of CSE & IT Attended five days Faculty Enablement Program (FEP) Foundation Program 4.1 at Jaipur Rajasthan, 18-22 September 2017.

FACULTY ACHIEVEMENTS

Dr. Manish Dixit was appreciated for volunteered as a Procter to guide and oversee competing teams for the IEEE Extreme programming competition by IEEE, USA.



RESEARCH PUBLICATION

- **Anshu Arele, Vikas Sejwar** *“Enhanced Online Payment Security using Steganography, Quantum and Visual Cryptography”* International Journal of Computer Sciences and Engineering, Volume-5, Issue-7, Jul 2017, E-ISSN: 2347-2693.
- **Vikas Sejwar, Shivangi Agrawal** *“Crime Identification using FP-Growth and Multi Objective Particle Swarm Optimization”* International Conference on Trends in Electronics and Informatics, 978-1-5090-4257-9/2017 IEEE pp 727-734.
- **Garima Agrawal, Abhilash Sonker**, *“Improving Confidentiality, Integrity, Authenticity in Mobile Wallet”*, International Journal of Computer Sciences and Engineering (IJCSE) Vol.5, Issue.9, pp.181-184, 2017.
- **Garima Agrawal, Abhilash Sonker**, *“Enhancing Confidentiality, Integrity, Authenticity & Non-repudiation using AES & ECC in Mobile Wallet”*, International Journal of Creative Research Thoughts (IJCRT) Vol.5, Issue.4, 2017.

- **Vikas Sejwar, Monika Gautam** “A brief review of WSN energy and routing protocols” 2017 International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC) , IEEE: 05 Oct 2017.
- **Abhishek Agrawal, Abhilash Sonker** “A Secure Routing Using Digital Envelope in Mobile Ad Hoc Network” Volume 5, Issue 4, October 2017 in International Journal of Creative Research Thoughts, ISSN No. 2320-2882.
- **Abhishek Agrawal, Abhilash Sonker** “A Review of Different Routing Protocols in Mobile Ad Hoc Network” Volume 4, Issue 10, October 2017 in International Journal of Advance Engineering and Research Development, ISSN No. 2348-6406.

BOOK CHAPTER

Ruhi Dubey, Rajni Ranjan Singh Makwana, "Computer-Assisted Valuation of Descriptive Answers Using Weka with RandomForest Classification", [Lecture Notes in Electrical Engineering](#) bookseries ,DOI: https://doi.org/10.1007/978-981-10-8234-4_31,2017, pp 359-366 , Springer, Singapore , SCOPUS Indexed.

Nidhi Tomar, Amit Kumar Manjhvar “Role of Clustering in Crime Detection: Application of Fuzzy K-means” © Springer Nature Singapore Pte Ltd. 2018 .K. Bhatia et al. (eds.), Advances in Computer and Computational Sciences, Advances in Intelligent Systems and Computing 554, https://doi.org/10.1007/978-981-10-3773-3_57

CLUB ACTIVITIES

TECHTONIA ACTIVITY held by the Click club of the institute on 07 October 2017. This event was organized under the supervision of **Prof. Mahesh Parmar, click club faculty coordinator**. In this event basically a technical quiz that was held in three round 1st round technical quiz, 2nd round audio/visual and 3rd round PI.

102 students were participated. Three students have got first, second and third position among 102 participant.



STUDENT ACTIVITIES & ACHIEVEMENTS

Ankur Agarwal	Organised blood donation camp on Dussehra Eve
Jyotsna Pandit	Represented RGPV University at West Zone Basketball Tournament Captain of college women basketball team at nodal tournament Coordinator of TEDxMITSG
Armaan Gupta	Won first prize in graffiti, 2017 Event head , MITSVAH-2017

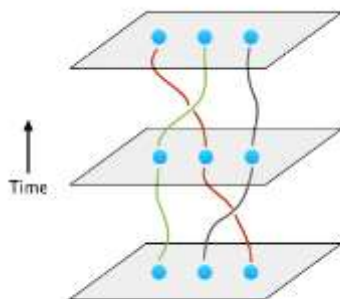
Avi Kaushik	Sponsorship head in the college fest MITSVAH 2017 Event head in college fest MITSVAH 2017
Sparsh Verma	President of organizing committee: college fest MITSVAH 2017
Komal Kamtaria	Participated in Thomso 2017- “A Magical Fantasia”

LATEST TECHNOLOGIES

Quantum Computing

In October 2017, Intel delivered a test chip with superconducting properties for quantum computing known as a 17-qubit chip.

Microsoft announced the development and soon to be generally available topological qubit quantum computing programming language.

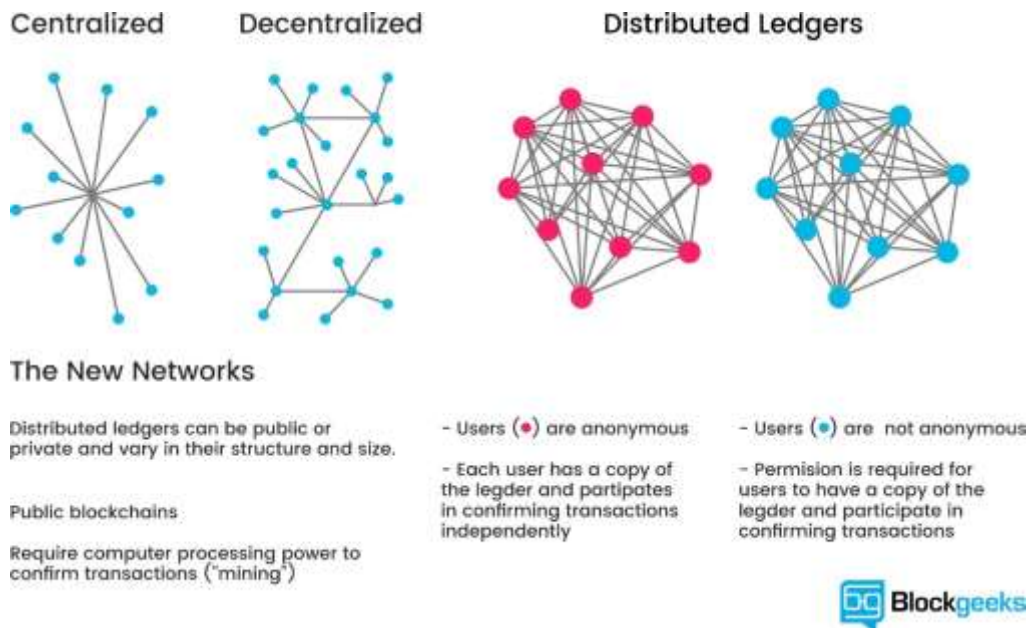


Blockchain

The rise and subsequent drop in price of blockchain-based cryptocurrency Bitcoin has dominated recent coverage of blockchain technology, but there are many different flavours of the distributed ledger technology.

Ethereum is a general purpose distributed ledger technology. It is ‘permissionless’ – that is open to the public. It is positioned as suitable for many applications.

The other much spoken of application is streamlining the advertising business model with the disintermediation of 'middle' men. Blockchain is touted as disruptor technology and proof of concept and assessment projects started in media in second half of 2017, but as Phillip Sandner at Medium.com writes, *smart contract code is simply code written in a programming language. Smart contracts don't infer legally binding contracts.*



Dev Ops, Microservices and Containers

Dev ops is a software development approach where firms constantly build and release software updates to provide new features on a continuous release basis.

Amazon Web Services defines Dev Ops as *“the combination of cultural philosophies, practices, and tools that increases an organization’s ability to deliver applications and services at high velocity: evolving and improving products at a faster pace than organizations using traditional software development and infrastructure management processes. This speed enables organizations to better serve their customers and compete more effectively in the market.”*

Microservices and Containers are being used more and more. Microservices involve single function applications usually built by small teams. Docker and Kubernetes are container types used by developers for shipping software applications across networks and in and out of cloud platforms.