



**BMS INSTITUTE OF
TECHNOLOGY
& MANAGEMENT**

Yelahanka,
Bengaluru - 064



BLOCK CHAIN

Dept. of Computer Science
Newsletter, August 18- July 2019

Vision

To develop technical professionals acquainted with recent trends and technologies of computer science to serve as valuable resource for the nation/society.

Mission

Facilitating and exposing the students to various learning opportunities through dedicated academic teaching, guidance and monitoring.

Program Educational Objectives

- Lead a successful career by designing, analysing and solving various problems in the field of Computer Science & Engineering.
- Pursue higher studies for enduring edification.
- Exhibit professional and team building attitude along with effective communication.
- Identify and provide solutions for sustainable environmental development.

HOD's Desk



Dr. Thippeswamy G

HoD, Department of CSE

It's my pleasure to write about the department of Computer Science & Engineering for the year 2018-19 (odd semester) as the term was fruitful with many student outcomes. The department is supported by 28 qualified and experienced faculty members with seven doctoral degree holders in different domains. The average experience of faculty of the department is 12 years. Department is highly committed to impart quality education to address the student needs. The department has signed MOU with few IT companies and other organizations.

I am happy to inform you that nearly 90 % of the students getting employment through campus placements in premier IT organizations. Some of the students are into entrepreneurship activities with their own start-up companies. The Department has incubation center also. The department has highly competent students who are undergoing internship in reputed companies with stipend range of 20-50 thousand rupees per month. With all these, the Under Graduate Program is accredited by National Board of Accreditation (NBA) during February 2017, New Delhi, and Permanently Affiliated to Visvesvaraya Technological University (VTU), Belagavi.

The best practices adopted by department to empower the students learning

Project Based Learning (PBL): students will develop 2 mini projects in every semester in the courses they learn in that semester which leads to better understanding the concepts and application of the technology to the real world problems, these projects will be exhibited in the open day at the end of semester and best projects are rewarded.

MOOCs: Department promotes the habit of self-learning through online courses to supplement the learning needs of students, through MOOCs students are able to learn the new

technologies which are trending and gain the abilities to participate in HACKATHONS and online internships.

OPEN COURSES: Department organizes 2 to 4 open courses accommodating more than 150 students from all programmes to participate and learn new technologies with hands-on experience.

OPEN VALUE ADDED COURSES: these courses are the extended version of OPEN COURSES conducted throughout the semester to provide the skills in latest technologies along with the regular academics.

ALUMNI: Department has huge alumni base working in diverse technologies, department organize alumni interaction with students so that they can get the exposure to the current trends in the industry and the valuable guidance from the seniors.

The department's mission is to bridge the gap between industry and institution to enhance the level employability and sustainability. Keeping this mission in the view, the department is organizing invited talk from domain experts from industry and academia. The students are molded with multifaceted skills that shells up in achieving all the required graduate attributes. The students of the department get into the industry through placement and they are exhibiting high inclination towards entrepreneurship and research. The department is supported by a large alumni group.

The Department has adopted the practice of Outcome Based Education (OBE).The department hosts several activities like Technical fests, Alumni meet, Technical talks, Seminars from most of the renowned industry and speculative personalities.

Awards/MOUs/Recognition

- Dr. Mahesh G, Associate Professor, Dept. of CSE, was a Session Chair for International Conference on Topical Transcends in Science, Technology & Management, at Sai Vidya Institute of Technology, Bengaluru, on 17th August 2018.
- Dr. Mahesh G, Associate Professor, Dept. of CSE, Session Chair for Second International Conference on Green Computing & Internet of Things on 18th August, 2018, at Global Academy of Technology, Bengaluru.
- Project Orientation for final year students: Dr. Thippeswamy G , HoD, CSE and other Professors of the department briefed about the challenges and problems in current real time scenario. They also shared their thoughts on their domain work and discussed about the various unsolved issues in the current Technology.
- Department of Computer Science and Engineering, BMSIT&M organized an Entrepreneurship Awareness (EAC) Camp from 27th to 29th of September 2018. EAC was sponsored DST-NIMAT. The 3 day camp was conducted for budding entrepreneurs to gain knowledge about the procedure and the struggles an entrepreneur goes through in starting a start-up and after the company is established.

The main motto of the program was to create awareness amongst the students about various facets of Entrepreneurship and the highlights of it.

Organizing Committee:

The organizing committee was headed by Dr.Thippeswamy G Professor & Head of Computer Science and Engineering, and consisted faculty members Mr. Guruprasad S, Mr. Shankar R and Mr. Ravi Kumar B N.

Volunteers:

There were 9 volunteers who made the whole thing happen. They worked with the organizing committee to make the event a success. It consisted of students from the 1st, 2nd and 3rd year of the CSE Department: Akshay Padesur, Roy George, Mir Abbas, Shantanu Jain, Namrata Karki, Sanjana Gowdanar, Atish Shet, Rishab and Sanjana Manjunath.



Chief guest Mr. Chandan S Raj giving a Key note



Participants

- Session Chair: Dr Anjan Krishnamurthy, Associate Professor, Dept. of CSE, BMSIT&M, was a Session Chair to 1st International Conference on Intelligent Computing 2018 held at Amrita Vishwa Vidyapeetam on 26th Oct 2018.
- Prof. Muneshwara M S Assistant Professor, Dept. of CSE, BMSIT&M has been invited for giving the expert talk on “Python Programming” for M.Sc. Geoinformatica Students, organized at Kuvempu University, Shankaraghatta, Shimoga during 25th and 26th Nov 2018.



- Prof. Shruthi J Assistant Professor, Dept. of CSE, BMSIT&M delivered an expert talk on “One Day Student Development Programme on Machine Learning “ in Sir M Visveshvariah Institute Of Technology, Bangalore on 16th Nov 2018.



- Session Chair: Dr Anjan Krishnamurthy, Associate Professor, Dept. of CSE, BMSIT&M, was a Session Chair for Special Session on “Software and its Application in Interdisciplinary Domain “at 3RD INTERNATIONAL CONFERENCE ON SMART COMPUTING & INFORMATICS (SCI-2018) (SPRINGER CONFERENCE) Organised by School of Computer Applications and School of Computer Engineering, KIIT university Bhubaneswar, held on 21st and 22nd Dec 2018.



Dr. Anjan Receiving Momento

Memorable Moments

- Mrs. Chethana C, Assistant Professor, Dept. of CSE, coordinated One week of Swachh Bharath Summer Internship for BMSIT Students from NSS UNIT during 9th to 15th July 2018. The Internship was conducted at Gouribidanur , Kadabur Village.



Giving information to the Students Inside Class



Awareness about health to the village people

- The various



Shramadhan Activity



Awareness about health

activities like Rally, Information about health in class for school students, AV about health and clean was played for the village people.

- Prof. Muneshwara M S Assistant Professor, Dept. of CSE, BMSIT&M conducted an activity on 11th Nov 2018 for First year Civil students Working of C Programming on smart devices - executing C programs in ANRIOD OS using the D-Coder app.



- PBL exhibition: Project Based Learning is a teaching method in which students gain knowledge and skills by working for an extended period to investigate and respond to an authentic, engaging, and complex questioning, problem, or challenge. Department of Computer Science & Engineering in association with IEEE student chapter and Computer Society of India proudly hosted 2018-19 Odd Semester's Project Based Learning encompassing 187 projects in various fields of Computer Science.

This edition of PBL focused on topics like: Web Technologies, Data Structures, Unix, Database, Computer Networks & C Programming Projects.

Coordinator: Prof. Shankar R Assistant Professor, Dept. of CSE, BMSIT&M.



- Mr. Shankar R & Mr. Harinath H N, faculties, Dept. of CSE, have developed “ Open Course Online Registration system” for students which helps them in registering any of the 23 open courses conducted by all the departments. The hosting space from AWS and all its necessary support was provided by Mrs. Vishakha Yadav, Asst. Professor, CSE.

The open course registration link is:

<http://13.233.70.102/sdp/>

The course coordinator can go to:

<http://13.233.70.102/sdp/coordinator/login.php>

After login, the course coordinator can check the status of the course like the registration count and if he/she clicks "show" button, the registered students' details will be shown. This will be highly helpful in getting the registered students details.



Industry-Institute Interaction

- Conducted 3 days outreach activity on “Employability Skills: IT literacy” for the students of Govt. ITI College, Doddaballapura During 3rd to 5th July 2018.



In this activity a total of 29 students has attended and the session included Concepts of Computer Basics, Software, Hardware, Internet and training on MS-Office has been imparted.

Coordinators:

- Dr. Thippeswamy G, Professor and Head, Department of CSE
 - Dr. Anil G.N, Professor, Dept. of CSE
 - Mr. Muneshwara M S, Assistant Professor, Dept. of CSE
 - Mr. Jagadish P, Assistant Professor, Dept. of CSE
 - Mrs. Ragini T.N, Assistant Professor, Dept. of CSE
 - Mr. Harinath, Assistant Instructor, Dept. of CSE
 - Mr. Adinarayana Reddy, Assistant Instructor, Dept. of CSE
 - Mr. Venkatesh Banagar, Assistant Instructor, Dept. of CSE
-
- Dr. Thippeswamy G, HoD, Dept of CSE and Mr. Vishwa Kiran S, Assistant Professor Dept. of CSE visited L&T InfoTech, Mysore on 14th September 2018, to collaborate with the company for conducting Internship programmes and explore corporate training opportunities for BMSIT faculties.
 - Prof. Muneshwara M S, Assistant Professor, Dept. of CSE, attended an Event Eclipse day-2018 at IBM, ECGL Park, Domlur, Bengaluru on 22nd September 2018 – In the event they launched the latest Java Version and Eclipse.
 - Corporate Training: Prof. Vishwa Kiran S, Assistant Professor, Dept. of CSE, BMSIT&M handled 3 Days Advanced C++ Training for Cisco Employees during 9th to 11th Oct 2018. Prof. Shankar R, Assistant Professor, Dept of CSE, BMSIT&M accompanied Vishwa Kiran for technical support.



- The following faculty members of CSE department visited the “Train the Trainer Programme on Embedded C programming” in L&T CTEA Mysore from 28th January 2019 to 2nd February 2019.
- Prof. Vishwa Kiran, Asst. Professor, Dept. of CSE, BMSIT&M
- Prof. Guruprasad S, Asst. Professor, Dept. of CSE, BMSIT&M
- Dr. Mahesh G, Associate Professor, Dept. of CSE, BMSIT&M
- Dr. Satish Kumar, Asst. Professor, Dept. of CSE, BMSIT&M



Faculty Internship

- Dr. Anil G N, H.O.D, Dept. of CSE, BMSIT&M and has attended an internship on “Networking” at Netcom Technologies bengaluru from 14th Jan 2019 to 23rd Jan 2019.

Internship Outcome:

It helped to learn internet protocol fundamentals, performance and monitoring of networks, routing, network security, and application protocols for distributed systems including web, email, video.

- Prof. Bharathi R, Associate Professor, Prof. Shruthi.J Asst. Professor, Dept. of CSE, BMSIT&M has attended an internship on “efficiency of cloud servers and providing web security measures for cloud computing platform” at WebKartel Pvt Ltd bengaluru from 14th Jan 2019 to 23rd Jan 2019.

Internship Outcome:

It helped to learn user friendly design with solid coding and stellar service to provide a Responsive website that adheres to today’s technical standards.

- Prof. G.Y.Durgadevi Asst. Professor, Dept. of CSE, BMSIT&M has attended an internship on “various Software testing methods of the modules developed for different applications” at KLB Instruments Co.(P)Ltd bengaluru from 14th Jan 2019 to 23rd Jan 2019.

Internship Outcome:

It helped to learn about testing methods for various applications that can be developed for medical instruments.

- Prof. Guruprasad S Asst. Professor, Dept. of CSE, BMSIT&M has attended an internship on “Learning agile software process” at Bigome Technologies bengaluru from 14th Jan 2019 to 23rd Jan 2019.

Internship Outcome:

It helped to understand the agile process adoption in the software projects

- Prof. Shankar R Asst. Professor, Dept. of CSE, BMSIT&M has attended an internship at NI Limited, Bengaluru from 14th Jan 2019 to 23rd Jan 2019.

Internship Outcome:

It helped to understand the agile process adoption in the insurance software.

Workshops/Faculty Development

| SL. NO | Date | Name of the Faculty/ Designation | Workshop/Seminar /FDP Name | Benefit to the faculty and college |
|--------|--------------------------|--|---|--|
| 1 | 09-07-18 to 14-07-18 | Prof. Vidya R Pai Prof. Shruthi J Prof. Ravi Kumar B N Assistant Professors | 6 DAY FDP On "Machine Learning" | It was According to 7th semester Lab Syllabus and also helpful to research |
| 2 | 16-07-18 to 21-07-18 | Dr.Bharathi M A Professor | Building Learning Machines | In learning new concepts and applications of Machine Learning. |
| 3 | 16-07-18 to 21-07-18 | Mrs.Bhagya M Mr. Harinath Mr Adinarayana Reddy Assistant Instructors | 5 Day FDP on Building Learning Machines | Learnt Concepts of ML, Regression, SVM, AI, Convolution Network, Helpful to teach the students in lab |
| | 23/07/2018 to 27/07/2018 | Mrs Chethana C Assistant Professor | 5 Day workshop on Machine Learning | It was According to 7th semester Lab Syllabus and also helpful to research |
| 4 | 23-07-18 to 27-07-18 | HemaMalini B H Associate Professor | "Machine Learning with Python" | Helpful for research |
| 5 | 24-07-18 to 28-07-18 | Mr. Muneshwara M S Mr. Jagadish.P Assistant Professors | 5 DAYS FDP On "Engineering Research: Avenues, Challenges and Opportunities" | Helped in Knowing the recent challenges and new opportunities in Engineering research |

- Prof. Vishwa Kiran attended IoT workshop organized by Arrow - Silicon at Hyatt Centric, MG Road, Bangalore on 24th Oct 2018.



- Mr. Pranav Raikote, Student, 5th semester, attended one Day Workshop on IEEE Future Directions and 6th Wave Of Innovation, by IEEE HKN Student Branch at IISc Bangalore on 3rd Oct 2018. The Workshop about Seminars on Neural Networks, Brain Computing, Image Processing, 5G Test Bed in IISc. They briefed about Upcoming Technologies and IEEE Future Directions of Technology and IEEE's vision of bringing together various societies and chapters for the Future Direction Technologies.
- Prof. Hema Malini B. H, Associate Professor, Dept. of CSE, Attended "One week FDP on Artificial Intelligence using Deep Learning and Machine Learning" from November 26th to 30th November 2018, at NIT, TRICHY.
- Prof. Jagadish P and Prof. Anand R, Asst. Professors, Dept. of CSE, BMSIT&M attended one week Faculty Development Program on "Data science and IOT applications " at East point college of engineering and Technology , Bengaluru, during 29th to 31st January 2019. Outcome: Got a good insight on IOT applications with python.
- Dr. Anjan Krishnamurthy, Dr. Anupama H S Associate Professors, and Prof. Munehwara M S, Asst. Professor Dept. of CSE, BMSIT&M attended one week Faculty Development Program on "DevOps " at RIT, Bengaluru, during 21st to 25th January 2019. Outcome: Helped us to create culture in the working environment considering the both development and operation team. Different tools related to DevOps and ChatOps was delivered by the resource person effectively.
- Dr. Bharathi M A, Professor, Prof. Ravi Kumar B N, and Prof. Srivani P, Asst. Professors, Dept. of CSE, BMSIT&M attended one week Faculty Development Program on "Data Science using R " at RajaRajeshwari college of engineering and Technology , Bengaluru, during 29th to 31st January 2019. Outcome: Gave an insight into how data is to be cleansed and extraction of information from data.

Seminar/Expert Talks

- Mr. Vishwa Kiran S, Assistant Professor Dept. of CSE delivered an invited talk on Tit bits of C Programming for First semester students of Dept. of ECE, BMSIT, on 21st September 2018.
- Alumni talk on “Be the lion of the Tech Food Chain” by Alumnus Mr. Karan Bhandar, Technical Expert Society Generale, Bangalore organized by Prof. Muneshwara M S and Prof. Vidya R Assistant Professors Dept. of CSE, BMSIT&M, on 27th Oct 2018.
- Expert Talk on “Machine Learning with Big Data Tools” by Mr. Nasser Ebrahim and Mr. Bhaktavatsal R Maram, IBM ISL for 5th Semester B.E and 1st Semester M.Tech students. Organized by Dr Anupama H S and Dr Anjan Krishnamurthy, Associate Professors, dept. of CSE, BMSIT&M, on 27th Oct 2018.



The experts gave deep insight in to Machine learning algorithms using Hadoop and Spark platform for processing with the help for IBM WATSON IDE / notebook. The session was well received by the students of CSE and faculties who attended the same.

Co-Curricular Activities

- Co-curricular Activity : Dr. Satish Kumar .T, Associate Professors, dept. of CSE, BMSIT&M, conducted an activity “Essay writing” on The fears about artificial intelligence
 - 1 .Are they justified?
 2. What is the role of artificial intelligence in space exploration?
 3. The impact of computer science on methods of learning.
 4. Social media and the first world countries – Helping or creating issues?
 5. The negative and positive sides of evolving technology
 6. Technology – What impact has it had on traditional means of interactions
 7. Video game technologies development – Should government fund development?

62 students have written the Essay. The activity was conducted on 5th Oct 2018.

- Semaphore, a techno-cultural fest organized by the Computer Science & Engineering department of BMS Institute of Technology took place on the 6th of October 2018. As per the culture of BMSIT&M, every Academic year Department of Computer Science and Engineering organizes inter college technical fest for aspirants assembling from various engineering colleges with a very high competitive spirit to participant and with the strong determination to include their achievements & accomplishments to their resumes.

The fest was organized with the objective to provide platform for the students to showcase their talent with a competitive spirit.

The event was successful enough to attract as many as 400 registrations for one day fest which includes all the following events.

- Blind Coding
- Arcadia
- Hogathon
- 5 in 1 Shows Quiz
- Selfie Le Lo
- PubG
- Fifa
- Are You Truly a 90's Kid?
- Arm Wrestling
- Mini Militia
- Mock Placements
- BMSIT's Got Talent
- Minute To Win It



Inauguration



Teachers Event



Hogathon Event



Receiving prize in BMSIT got Talent Event

The winners were encouraged with a cash prizes for all the events.

Faculty Coordinator: Prof. Ravi Kumar B N, Assistant Professor, Dept. of CSE, BMSIT&M

Student Coordinators: Laalithya A , Tarun Jain, Drishti Ramesh Megalmani, Pranav Raikote, Lokesh M, Harshit ,Harsha Manoj, Ridwan Shafi, Akshay Sadhu, Akshay Padesur, Bibhu Ranjan, Bindu Banuprakash, Varun Reddy, Bibhu Ranjan, Ankith M, Rakshitha Ravi

- Think Pair and Share: Prof. Srivani P, Assistant Professors, Dept. of CSE, BMSIT&M, conducted an activity “Think pair and share on Problem Solving using C programming Language”.

Organized for I Semester ECE H Sec students. This activity is an outcome based Education where students share their ideas with classmates and try to solve the C problems given.

Students will gain an experience to understand, think and solve C related problems. It also helps them in future placements. This is one of the platform where students develop critical thinking, and enhance their skills.



Students solving problems

Papers Presented

| SL. NO | Date | Name of the Faculty/Designation | TITLE/VOLUME/ISSN/IMPACT FACTOR | Journal Name |
|--------|--------------|---|---|--|
| 1 | August 2018 | Prof. Muneshwara M S Assistant Professor | Autobot: Leveraging Cloud Service to enable IOT Connected Robotic Automaton | 4th International Conference ICATCCT Alva's Institute of Engineering & Technology Mangalore, Karnataka |
| 2 | October 2018 | Dr. Anjan Krishnamurthy, Associate Professor | Generalized Adaptive Security for Computer System | IAENG conference ICCSA 2018, UC Berkeley, USA |

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|---|---|---|---|--|
| 3 | Dec 2018 | Dr Mahesh G Associate Professor Dr. Anjan Krishnamurthy, Associate Professor | "VOIP smart speech encoding mechanism using high performance computing" | Third International Conference on smart computing and Informatics (Springer), KIIT university Bhubaneswar |
| 4 | 21 st and 22 nd Dec 2018 | Prof. HemaMalini B H, Associate Professor | "Comprehensive Analysis of Students' Performance by applying Machine Learning Techniques" | Third International Conference on smart computing and Informatics (Springer), KIIT university Bhubaneswar |

Papers Published

| SL. NO | Date | Name of the Faculty/Designation | TITLE/VOLUME/ISSN/IMPACT FACTOR | Journal Name |
|--------|-----------|---|--|--|
| 1 | July 2018 | Dr. Thippeswamy G, Professor and Head | "Leaf Quality :Hyperspectral" Imaging Technology Issue 7 ISSN-693-696, Impact factor: 5.97 | International Journal of Engineering & Technology |
| 2 | July 2018 | Mr. Muneshwara M S Asst. Professor | "To incorporate value-added security features into current data for outsourcing cloud data applications through Secured Access Control and Assured Deletion" Issue 3 Volume 7 ISSN 2278-6856 Impact Factor: 8..502 | International Journal of Emerging Trends & Technology in Computer Science (IJETTCS) Indexed by Thompson Reuters |
| 3 | July 2018 | Mrs. G. Y. Durgadevi Asst. Professor | Vehicular Communication System for reducing Fuel cost and Emission Issue 3 Volume 5 | International Journal of Research and Analytical Reviews |
| 4 | Nov 2018 | Prof. Muneshwara M S Assistant Professor | Survey of Object Detection using Deep Neural Networks/ Vol. 7, Issue 11, November 2018/ ISSN (Online) 2278-1021 ISSN (Print) 2319-5940/ DOI 10.17148/IJARCCCE.2018.7114/ 6.66 | International Journal of Advanced Research in Computer and Communication Engineering |

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|---|-----|---|--|--|
| 5 | Nov | Prof. Muneshwara M S Assistant Professor | Survey on Faster Region Convolution Neural Network for Object Detection/ Volume: 4 Issue: 11/ ISSN: 2454-4248/ UGC Approved Journal Impact Factor : 4.312 | International Journal on Future Revolution in Computer Science & Communication Engineering |
|---|-----|---|--|--|

Placement Activities

| Sl. No | Company | Package | Student Name |
|--------|---|---------|--------------------|
| 1 |  | 7.5+4 | Vishnu Menon |
| | | | Rishabh Verma |
| 2 |  | 7 | Chinmayi Hegde |
| | | | V Archith |
| 3 |  | 6 | Arundhati Shanbhag |
| | | | Sahil Verma |
| 4 |  | 6 | Kanya Krishi |
| | | | Anushree Gudoor |
| 5 |  | 3.5 | Dishi Tiwari |
| | | | Bhargav Sagiraju |
| | | | Adarsh Kumar Sah |
| | | | Sripad T |
| 6 |  | 7+6 | Radhika Raman |

| | | | |
|----|---|---------|---|
| 7 |  SOCIETE GENERALE | 4.5 | Preran Devaiah |
| 8 |  L&T Infotech | 3.18 | Abhishek Bhaskar P Vignesh |
| 9 | SIEMENS | 5.5 | Mayank Kushal Nikhil AR |
| 10 |  | 3.5 | Sripad T |
| 11 |  simeio | 3.5 | Ankit Agrawal Chinmayi R Hegde Kumar Gaurav Raj Divyashree G |
| 12 |  | 3.6 | Madhukar Shetty |
| 13 |  ALTIMETRIK | 4.25 | Aayush Nandkeolyar |
| 14 |  GE Appliances | 6.2 LPA | Dishi Tiwari Shreya S |

| | | | |
|----|---|--------|---|
| 15 |  | 3.36 | Pavan Hoysal L S |
| 16 |  | 4.5 | Bhavesh M Sourabh Bangar Tejas Vaidya |
| 17 |  | 3.5 | Ketan Yadav |
| 18 |  | 3.0LPA | Ananya Supriya S Warad |
| 19 |  | 5.5 | V Archith Poojitha K Nikhil Achar Harshith TR Varun Karanth |

An Insightful look Into BlockChain Technology



During the past year everyone everywhere went crazy about crypto currencies and in particular, the so called crypto gold -BitCoin. However, even though that your (grand) parents have probably have heard about this digital currency, it's likely that they haven't got a single clue about the fascinating technology behind it called block chain.

But what it is that makes blockchain so special that more and more businesses in various industries are now adopting it? When we think about technology, we assume the constant buzzing notifications from your smartphone and people walking on the streets, while staring at a smartphone screen. However, blockChain is the first technology, which will actually connect us instead of the opposite. It will change the way we make decisions and exchange value.

In order to understand one of the many ways that blockchain is of advantage to our society, let's take a look at the banking system. If you want to make a transaction, the bank is the institution which sets the rules on how this transaction will be executed—how long will it take, how much will they charge you and so on. If this transaction is made on the blockchain, there are a set of computers which are participating in the network to validate this transaction. They basically help you operate this transaction one-to-one without the bank as an intermediary.

This fancy term blockchain actually means a block of data that has been recorded over a certain amount of time and is grouped and cryptographically linked to a previous set of data forming a chain of events.

These computers are agreeing upon what happened over a time period and then each of them represents that data instead of having one centralized entity that is doing so. All of these events which occurred on the blockchain, are recorded on a public ledgers.

This is how the blockchain works by providing a way to track and transfer data that is transparent, safe, auditable, and resistant to outages. But how are those features beneficial to the way we make decisions and exchange value? The answer is: by providing opportunity to trust each other and lower uncertainty to know more about one another.

This is the importance of Digital Trust. We want to know if you are who you say you are and if you are able to do what you are trying to do. This is especially valid when there is an exchange of value between two or more parties. Back in the days people were able to trust each other upon a strong handshake a set of personal qualities. Today this is not the case and trusting in a digital world is rather risky. It requires proving identity (authentication) and proving permissions (authorization).

With blockchain technology, those two requirements are fulfilled by possessing a cryptographic private key. It reveals a powerful tool that fulfils both authentication and ownership requirements. Also, it protects the individual from having to share more personal information than they need to for an exchange, leaving them exposed to hackers.

It is this difference that makes blockchain technology so useful—representing an innovation in registering and distributing information, that eliminates the need for a trusted party to facilitate those relationships.

In Conclusion, Blockchain is not an app, nor a company. It is not the solution of every corrupted organization and it is possible that in a few years, when more people adopt it, to get manipulated. However, now authentication and authorization are vital to all digital transactions. They provide us with a set of rules that rebuilt the trust we used to have, thanks to technology. This way, by lowering our uncertainties, we transform our economics and almost every aspect of life in radical ways.

By,
Sudarshan Venkatesh,
VI Semester

Faculty List

| Sl.No | Faculty Name | Designation |
|--------------|-------------------------|---------------------|
| 1. | Dr. Anil G N | Professor & HoD |
| 2. | Dr. Thippeswamy G | Professor & Dean |
| 3. | Dr. Bharathi M. A | Professor |
| 4. | Mrs. Hemamalini B H | Associate Professor |
| 5. | Mrs. Bharathi R | Associate Professor |
| 6. | Dr. Mahesh G | Associate Professor |
| 7. | Dr. Anupama H.S | Associate Professor |
| 8. | Dr. Anjan Krishnamurthy | Associate Professor |
| 9. | Mrs. Vishakha Yadav | Assistant Professor |
| 10. | Mrs. Muneeshwara M S | Assistant Professor |
| 11. | Mr. Anand R | Assistant Professor |
| 12. | Mrs. Durga Devi | Assistant Professor |
| 13. | Mrs. Shruthi J | Assistant Professor |
| 14. | Mr. Jagadish P | Assistant Professor |
| 15. | Mrs. Durga Bhavani | Assistant Professor |
| 16. | Mr. Rajesh N V | Assistant Professor |
| 17. | Mrs. Chethana C | Assistant Professor |
| 18. | Ms. Ambika G N | Assistant Professor |
| 19. | Mrs. Vidya R Pai | Assistant Professor |
| 20. | Mrs. Mari Krithima A | Assistant Professor |
| 21. | Mrs. Radhika K R | Assistant Professor |
| 22. | Mr. Guruprasad S | Assistant Professor |
| 23. | Mrs. Srivani P | Assistant Professor |
| 24. | Mr. Ravi Kumar B N | Assistant Professor |
| 25. | Mr. Shankar R | Assistant Professor |
| 26. | Ms. Arunakumari | Assistant Professor |
| 27. | Mr. Viswakiran | Assistant Professor |
| 28. | Dr. Satish Kumar T | Assistant Professor |



CSE FACULTIES

EDITORIAL TEAM



Ravi Kumar BN
Asst. Professor



Ridwan Ul Haq
CSE - VI Sem



Pranav Raikote
CSE - VI Sem