ICT Chronicle

Annual Newsletter of the Department of Information and Communication Technology, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal-576104

Vision: "Excellence in Information and Communication Technology Education through continuous learning and teamwork"

♣ **Patrons:**
Dr. Anil Rana, Director, MIT
Dr. Somashekara Bhat, Joint Director, MIT

♣ **Faculty Mentor:**
Dr. Smitha N Pai, Professor and Head, ICT, MIT

♣ **Faculty Advisors:**
Dr. Manohara Pai M.M, Professor, ICT, MIT
Dr. Radhika M. Pai, Professor, ICT, MIT
Dr. Preetham Kumar, Professor, ICT, MIT
Dr. Balachandra, Professor, ICT, MIT

♣ **Editor-in-Chief:**
Dr. Girija Attigeri, Faculty, ICT, MIT

♣ **Editorial Team:**
Dr. Sumith N, Faculty, ICT, MIT
Mrs. Swathi B. P, Faculty, ICT, MIT
Mr. Sandeep Kini, Student, I M.Tech. (CNE)
Mr. Tanay Agarwal, Student, I M.Tech. (SE)
Ms. Smriti Singh, Student, VII B.Tech. (IT)
Ms. Aprajita Bhowal, Student, VII B.Tech (CCE)

MESSAGE FROM HOD

Newsletter collates information of all achievements and activities from students and faculty of the ICT dept. The dept. fosters growth and development of students and faculty alike, not only in academics and research but also in sports and cultural activities.
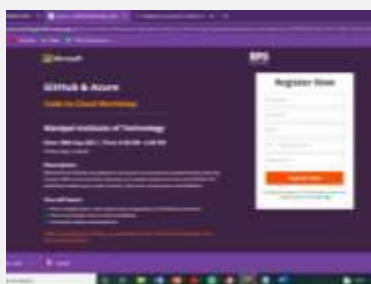
Each edition of newsletter ICT Chronicle, show cases the year-long attainments from various quarters. Numerous workshops, hackathon, events were organized by the dept. As a HoD, I congratulate all of them involved for sharing their stories and taking active part in all the events. This inspirational story could be a motivation for many. My sincere thanks to all those associated with this newsletter for bringing this out in such a nice presentable form.

♣ WORKSHOPS

PING 2021

The annual workshop of the ICT Dept., PING 2.0.2.1 with the theme "Devops to NoOps An Enterprise Viewpoint" was conducted on 26th and 27th March, 2021 in online mode. Mr. Kiran Puthukudy, Solution Architect, GTS Lab, Mr. Senthilkumar Vimalraj, Multicloud Architect, GTS Lab, IBM, Rajneesh Rai Senior Security Architect, GTS Lab, IBM. Ms. Nalini M, Senior Full-stack developer, GTS Labs, IBM, and Mr. Anantha Balasubramanian, Lead Cloud Architect, GTS Labs, IBM. They focused on overview of SDLC, micro-services, containers and devOps, Developing Security in the software development lifecycle, Quantum Computing and Hands on sessions for GitHub and Docker Ansible Automation framework. **Dr. Smitha N Pai** and **Dr. Preetham Kumar** Faculty, ICT Dept. were the conveners of the workshop.

Azure + GitHub Workshop

Department of ICT in association with GitHub and Azure organized one day certified workshop titled "Code to Cloud" on 29th September, 2021. Microsoft and GitHub announced an exclusive & complementary learning session, with a one-of-a-kind repository of curated content on Azure and GitHub, the workshop enables you to plan smarter, track work, and prevent vulnerabilities. Take aways from the workshop were how to deploy faster with native Azure integrations and GitHub extensions, how to automate code-to-cloud workflows, accelerate software development. The event was coordinated by **Ms. Veena K M**, Faculty, ICT Dept.

♣ CENTERS

ξ Center for Artificial and Machine Intelligence under MAHE is coordinated by Dr. Sanjay Singh.
ξ Center for Cyber Security under MAHE is coordinated by Dr. Balachandra.

♣ GUEST LECTURES/SEMINARS

Nazar aur Nazaria, before and after lockdown

On the occasion of International Women's Day, Dept. of ICT in association with the WIE Affinity Group IEEE Student Branch Manipal, conducted a webinar on "Nazar aur Nazariya, before and after lockdown" on 8th March. 2021. The event focused on how the Covid-19 lock down has impacted our eyes and the changes we incorporated in our life during this pandemic. The Speaker for the occasion was Dr. Sulatha V Bhandary, Professor and Head, Department of Ophthalmology, Kasturba Medical College, Manipal. She also gave a few tips and tricks to maintain good optical health in the times of online mode of education. The event was coordinated by **Dr. Poornalatha G**, Faculty, ICT Dept., and Faculty Advisor IEEE WIE AG, MIT student branch, Manipal.

NOKIA Tech Talk Webinars

Nokia University Collaboration Bangalore conducted the exclusive 'Emerging Tech Talk Webinars 2021' on the latest and farsighted topics like Machine Learning, Robotics, 6G & ORAN. The resource persons were Mr. Preben Mogensen for 6G on 22nd April, 2021, Ms. Cinzia Sartori & Mr. Salil Agarwal for ORAN on 23rd April, 2021, Mr. Arun Gopinath for Machine Learning on 29th April, 2021 and Mr. Satish K for Robotics on 30th April, 2021. **Dr. Poornalatha G**, Faculty, ICT Dept. was the coordinator of the event from MIT, Manipal.

NOKIA Collegiate Code Warriors Hunt 2021

Nokia University Collaboration Bangalore conducted a 4 day hackathon contest, "Nokia Collegiate Code Warriors Hunt 2021" from 10th June to 13th June, 2021 for the students of MIT, Manipal, NITK Surathkal, RVCE Bengaluru, UVCE Bengaluru, DSCE Bengaluru, DSU Bengaluru, PES Bengaluru, BMS Bengaluru, BIT Bengaluru, NIE Mysuru, and JSSSTU Mysuru. Mr. Yash Wardhan, VI Semester BTech(IT) secured a position among the top10 winners. **Dr. Poornalatha G**, Faculty, ICT Dept. was the coordinator of the event from MIT, Manipal.

Nokia UC Foundation workshop on Cloud Security

Nokia University Collaboration Bangalore conducted the foundation workshop on "Cloud Security" on 30th and 31st July, 2021. Mr. Rakshesh P Bhatt (System Architect, Nokia) and Mr. Nagi Reddy (Specification Engineer, Nokia) were the resource persons for this workshop. **Dr. Poornalatha G**, Faculty, ICT Dept. was the coordinator of the event from MIT, Manipal.

Nokia UC Foundation workshop on C++

Nokia University Collaboration Bangalore conducted the foundation workshop on C++ and its advanced concepts (hands-on) on 27th August, 2021, 28th August, 2021, 3rd September, 2021 and 4th September, 2021. The aim of this workshop was to impart professional knowledge on the subject in accordance with industry standards for the UG students. The speakers were Mr. Bheemagani Shiv Kumar, Mr. Krishna Mohan, Mr. Prince Jan, Ms. Sahana M Kashyap, Mr. Hanandra Singh, Ms. Arpitha Ms, Melvin Kumar, Mr. Shivesh Kumar. **Dr. Poornalatha G**, Faculty, ICT Dept. was the coordinator of the event from MIT, Manipal.

NOKIA UC CONCLAVE 2021

NOKIA UC conducted its annual event, "Nokia University Conclave-2021" on 18th & 19th November 2021 for all the institution with whom they have collaboration. The focus of the event was to know and relish the upcoming technologies in communication industry, and the program also had students' debate, panel discussion, project presentations etc. Three days' quiz contest was organized on 15th, 16th, and 17th November 2021 with the fastest contestant with most number of correct answers as the winner of the day on all the 3 days. **Dr. Adesh N D**, Faculty, ICT Dept. was one of the resource persons for the panel discussion event.

IBM Talk Series: DevOps: An Enterprise Viewpoint

A Technical talk was organized by the ICT Dept. in association with IBM on 25th September, 2021. Mr. Ritesh Phogat, Advisory Software Engineer, IBM Bangalore spoke about the importance of DevOps culture where Dev team and Ops team work together to streamline things in agile planning, development, and execution. He also presented a demo using GitHub SCBM repository to the automated process of building the code from deployment to production. Various tools required for build automation, continuous integration, configuration management, orchestration, and infrastructure monitoring used in DevOps culture were explained. The technical talk was coordinated by **Dr. Manjula C Belavagi and Dr. Raghavendra Ganiga**, Faculty, ICT Dept. coordinated the event.

IBM Talk Series: Data Science Methodology

A Technical talk was organized by the ICT Dept. in association with IBM on 12th October 2021. Resource person, Ms. Ashwinipriya, Package Consultant, IBM Bangalore spoke about the importance of CRISP-DM life cycle in developing Data Science Methodology project especially in enterprise level. She also spoke about different phases of CRISP DM such as business understanding, data understanding, data preparation, modelling, evaluation, and deployment. Various types of charts used in data visualization were explained with suitable examples and usecases. **Mrs. Diana Olivia and Dr. Raghavendra Ganiga**, Faculty, ICT Dept. coordinated the event.

IBM Talk Series: Blockchain Technology

A Technical talk was organized by the Department of Information and communication technology in association with IBM on 18th November, 2021. Dr. Mani Madhukar, Program Manager, Global University Programs, IBM Research, Bangalore covered the principles and importance of blockchain technology. He discussed about how the blockchain stores encrypted data blocks and connects them to form a chronological single-source-of-truth for the information. Also emphasised on the inherent security features of blockchain, as well as its public ledger, that make an excellent option for any industry. The technical talk was coordinated by **Mrs. Diana Olivia** and **Dr. Raghavendra Ganiga**, Faculty, ICT Dept.

Student Preparedness in Evolving Landscape: Guest Talk

A career guidance talk on the topic "Evolving Landscape And How Students Need To Position Themselves" was organized on 11th May, 2021 to the UG and PG students of computer stream. The resource person was Mr. Shree Parthasarathy, Cyber Strategist & Evangelist and Leader-Cyber and Technology Services. **Dr. Balachandra**, Faculty, ICT Dept. coordinated the event. The talk focused on how students must prepare themselves to face challenges in the future job market and find themselves in the right position. Mr. Shree also highlighted the current potential in cyber security.
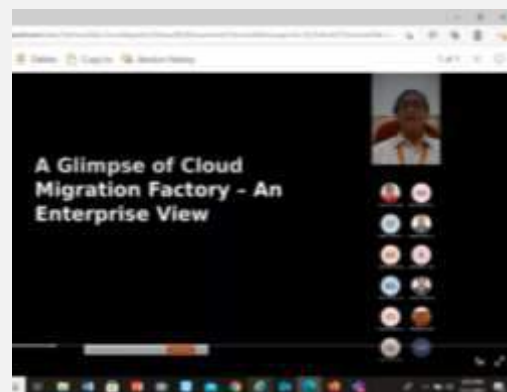
National Cyber Security Awareness Month-October 2021

A talk was organized by the Center for Cybersecurity in coordination with Dept. of ICT on 27th October, 2021. Mr. Rajneesh Rai, Security, Risk & Compliance Leader, IBM Bangalore spoke about the importance of cyber security. He also gave real time case studies while talking about the different types of cyber-attacks that happen in day-to-day life of an individual and an organisation. **Dr. Balachandra**, Faculty, ICT Dept. coordinated the event.

Talk on" A glimpse of Cloud Migration Factory – An Enterprise view"

Dept. of ICT organized a technical talk "A glimpse of Cloud Migration Factory – An Enterprise view" on 29th November, 2021 through online mode (MS Teams). The resource person was Mr. Gautam Bhat, Senior Vice President, Principal Architect, Technology, Data & Innovation group, Deutsche Bank. In his talk, he discussed about migration of workloads from on premises to the cloud and challenges in cloud migrations. He mentioned that so far only 20% of workloads are migrated to cloud and analysts are predicting that about 75% of enterprise workload will be migrated to Cloud by 2025. **Dr. Raghavendra Achar**, Faculty, ICT Dept. coordinated the event.

Microsoft Certification Mapped Programs Bundled with Internships

Dept. of ICT in collaboration with Quantum Learnings, conducted a webinar on "Microsoft Certification Mapped Programs Bundled with Internships" on 26th November, 2021. Mr. Tushar Jethani Co-founder, Quantum Learnings, Founder Mentor Buddy & Knowledge solutions India was the speaker for the session He spoke about latest opportunities for students to enhance their skillsets and pursue internship offers. Event was coordinated by **Mr. Akshay M J**, Faculty, ICT Dept. with the guidance of **Dr. Smitha Pai**, HOD, ICT Dept, MIT Manipal

Alumni Talk : Career guidance

A career guidance program was organized by the Dept. of ICT on 12th April, 2021 to enlighten the students of B.Tech (IT), B.Tech (CCE) and M.Tech students with placement and higher studies preparation, industry projects etc. The speaker was Ms. Krithika H. J, Alumnus of B.Tech CCE (2019 batch) is working as a software engineer at western digital, Bangalore. She is also an incoming student for Master's Student Management Science and Engineering, Columbia University. Krithika stressed the necessity of maintaining a high CGPA, participating in at least one technical project with a major contribution, and joining a technical club to develop teamwork. She also advised students to create a LinkedIn profile so that they can get assistance from their seniors. She

also stated that when it comes to interviews, one needs be honest, have a willingness to learn, practice, and not be nervous. The students were enthralled by Krithika's presentation, which was both instructive and interactive. The guest lecture was coordinated by **Dr. Rashmi Naveen Raj** , Alumni coordinator of ICT Dept.

Alumni Talk : "Artificial Intelligence : State of the art and what's next"

A guest lecture was organized by the Dept. of ICT in association with the Office of the Associate Director (AP&IR) on 17th April, 2021 in online mode using msteams. Ms. Kavya Srinet, alumnus of the B.Tech IT (2012 batch), was the resource person. Kavya presented the various on-going applications of AI and also future research directions. The guest lecture was coordinated by **Dr. Rashmi Naveen Raj** , Alumni coordinator of ICT Dept. and **Dr. Krishna Prakash**, Assistant director, AP & IR.

Alumni Talk : "Demystifying MBA and career in consulting"

A guest lecture was organized by the Department of Information and communication technology on 1st May, 2021 in online mode using msteams. The resource person of the talk was Mr. Praneet Jain, alumnus of B.Tech IT (2014 batch). Praneet discussed the numerous prospects in consulting positions, as well as how to apply for an MBA programme, criteria to select an MBA college. The event was coordinated by **Dr**. **Rashmi Naveen** Raj, Alumni coordinator of ICT Dept.

Alumni Talk : "Facing Interviews"

An Alumni talk was organized on 1st August, 2021 for the students and faculty of ICT department, Manipal. Ms. Ananya Gupta, an alumnus from B.Tech CCE (2020 batch) working as a Software Engineer, Microsoft was the resource person. Ms. Ananya discussed about how to prepare for Microsoft interview and interviews in general. **Mrs. Divya S**., faculty of ICT Dept. coordinated the session.

Alumni Talk : "Decipher the Start-Up Enigma"

The event was organized on 03rd October, 2021 features an enlightening conversation with Yash Mehta, alumnus of B.Tech CCE (2017 batch), the founder and CEO of Dobby, in which he discusses his start-up experience and success. He discussed his motivation for creating an IoT-based company as well as the hurdles he encountered along the way. The event was coordinated by **Dr**. **Rashmi Naveen Raj**, Alumni coordinator of ICT Dept.

Alumni Talk : "Distributed Systems: upcoming opportunities in the Software Development world"

Mr. Akshat Tulsani Alumnus, BTech CCE (2021 Batch), working as Associate Software Engineer at Cardinal Health, India gave a talk on 25th November, 2021. The speaker discussed topics such as adapter patterns, serving patterns, Event driven FAAS Load balanced replica, Batch computation patterns, Working queue systems. The speaker also highlighted differences between cloud and distributed systems and their practical usages. The talk was coordinated by **Dr. Krishna Prakash**, Assistant director, AP & IR.

♣ FACULTY ACHIEVEMENTS

Ph.D. Awardees

Mrs. Rashmi Naveen Raj has been awarded doctoral degree by MAHE, Manipal, for her thesis titled "Development of Multi-Objective Based Spectrum Aware Routing Protocol for Cognitive Radio Ad Hoc Networks" under the guidance of Dr. Ashalatha Nayak, HOD & Professor, Dept. of CSE, MIT, Manipal and Dr. Sathish Kumar M, Professor, Dept. of E&C, MIT, Manipal

Mr. Raghavendra Ganiga has been awarded doctoral degree by MAHE, Manipal, for his thesis titled "A Cloud Based Approach for Secure Storage and Retrieval of Standard Electronic Health Record" under the guidance Dr. Manohara Pai M.M, Professor, Dept. of ICT, Dr. Radhika M. Pai, Professor, Dept. of ICT, MIT, Manipal and Dr. Rajesh Kumar Sinha, Professor, Health Information Management & Head, Allied Health Program at Manipal Tata Medical, Jamshedpur, Jharkhand, India.

Interaction with Outside World

Mr. Arjun C V is currently carrying out research at Technological University Dublin. The research work aims at modelling cognitive load with EEG and deep learning for human computer interaction and instructional design.

Faculty as keynote speaker/resource person

Dr. Radhika M Pai was as a Guest Speaker for the session "Demonstration of Water Quality monitoring system for Aquaculture" during for the workshop "Skill development training program for fish and shrimp farmers" Organized by Smart Aquaculture Research project, Dept of ICT- A EDPL-MAHE CSR initiative, sponsored by Everest Blowers Private Limited- MAHE on 24th February 2021.

Dr. Manjula Shenoy K was as a Guest Speaker during national workshop on "Semantic Web" organized by RV Institute of Technology and Management. Bangalore on 22nd February 2021.

Dr. Poornalatha G. conducted online course on "Machine Learning in Python" for 4th-year Epitech students from 15th February to 10th March 2021.

Dr. Krishna Prakasha K delivered a talk on "Future of STI: Impacts on Education, Skills & Work" on the occasion of National Science Day Celebrations on 1st March, 2021 at SRSMN GFGC & PG STUDY CENTRE, BARKUR [Department of Sciences]

Dr. Ramakrishna M gave an online talk on "Light field technology" to students of Computer Science and Engineering at VCET, Puttur on 15th May 2021.

Dr. Chandrakala C B was resource person for the two-day Online Workshop on Role of "Emerging Applications of Blockchain Technology" organized by Department of Computer Science and Engineering, Vidyavardhaka College of Engineering, Mysuru on 10th and 11th June 2021.

Dr. Balachandra was resource person for Six Days' Online AICTE sponsored Short Term Training Programme on "Focuses" organized by Dept. of Information Science and Engineering held at NMAM Institute of technology, Nitte from 26th to 31st July 2021

Ms. Chetana Pujari was resource person for Six Days' Online AICTE sponsored Short Term Training Programme on "Focuses" organized by Dept. of Information Science and Engineering held at NMAM Institute of technology, Nitte from 26th to 31st July 2021

Mrs. Nisha P Shetty was resource person for Six Days' Online AICTE sponsored Short Term Training Programme on "Focuses" organized by Dept. of Information Science and Engineering held at NMAM Institute of technology, Nitte from 26th to 31st July 2021.

Dr. Girija Attigeri was as a Guest Speaker for One Week Faculty Development Program on "Emerging Paradigms in Artificial Intelligence and Data Science" organized by Department of Information Technology and Artificial Intelligence & Data Science, Vishwakarma Institute of Technology, Pune from 16th to 20th August 2021.

Dr. Sumith N was the resource person for EPISTATS Batch I Certificate course on Research Methodology, Epidemiology and Biostatistics for Health Science Researchers of KMC, Manipal Organized by Department of Community Medicine Kasturba Medical College, Manipal, on 17th August 2021.

Ms. Ipsita Upasana was the resource person the workshop on "Content Creation and Presentation: Hands on approach" Organized by Dept. Of ICT, MIT for Non-teaching staff on 3rd September 2021.

Dr. Sumith N. and **Mr. Akshay K C**. provided online Latex training for UG students of ICT Dept. on 11th September 2021 through MS teams. The goal of this training session was to expose students to the document writing tool LaTex.

Dr. S. Kaliraj was resource person for the two-day National Workshop on Role of "Artificial Intelligence in Software Fault Prediction" organized by Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulahtur on 28th and 29th October 2021.

Dr. Raghavendra S. delivered a technical session on "Build a connected vehicle using AWS cloud" as part of ATAL FDP on "Machine Learning in Infotainment Systems" during 13th to 17th December 2021, organized by Department of Information Science and Engineering, BNMIT, Bangalore.

Dr. Adesh N. D. delivered a technical session on "Next Generation Wireless networks" as part of Six days AICTE-ISTE sponsored refresher program on "Computer Science and Engineering" during 17th to 23rd December 2021, organized by Department of Computer Science, and Engineering, Coorg Institute of Technology, Ponnampet, Kodagu.

Dr. S. Kaliraj was resource person for online six days FDP on "CS8091- Big Data Analytics" from 27th December 2021 to 3rd January 2022 at Kongunadu College of Engineering and Technology, Tholupatti, sponsored by Anna University.

Faculty as Convener/Session Chair/Judge

Dr. Manohara Pai M M was the convener for the workshop "Skill development training program for fish and shrimp farmers" Organized by Smart Aquaculture Research project, Dept of ICT– A EDPL-MAHE CSR initiative, sponsored by Everest Blowers Private Limited– MAHE on 24th February 2021.

Dr. Adesh N D was an event judge, Code Innovation Series Hackathon on 28th August 2021.

Dr. Sanjay Singh chaired a session at First International Conference on Artificial Intelligence, Computational Electronics, and Communication Systems (AICECS 2021) on 28th October 2021

Dr. Radhika M Pai chaired a session at First International Conference on Artificial Intelligence, Computational Electronics, and Communication Systems (AICECS 2021) on 28th October 2021

Dr. Ajitha Shenoy K B, chaired a session at First International Conference on Artificial Intelligence, Computational Electronics, and Communication Systems (AICECS 2021) on 28th October 2021.

Dr. Smitha N Pai chaired a session at First International Conference on Artificial Intelligence, Computational Electronics, and Communication Systems (AICECS 2021) on 28th October 2021.

Publications

The faculty members have published around forty-seven research papers in various Scopus and Web of Science indexed journals and also presented around fifteen papers in various international conferences. Students of the department have also contributed for publications.

Patents and Grants

* Dr. Manohara Pai M. M. has received a patent for "An Insole based diabetic foot Ulcer Prediction System" in August 2021

* Dr. Balachandra has received Research Grants worth Rs. 3204616/- for the research titled "Effectiveness of A Mother-Mediated Occupational Therapy Early Intervention Program with Mobile Enabled Adherence Strategies to Support Mothers Self-Efficacy and Infant" from ICMR.

Awards and Recognitions

* Dr. Manohara Pai M M, Radhika M Pai and research scholars Shreesha S. and Girisha S. won the Best paper award for the paper presented at TENCON 2021: IEEE Region Ten Conference.

* Mrs. Nisha P Shetty has won 1st place for paper presentation in PhD Scholar's Research Colloquium 2021 conducted by Department of Computer Applications MIT-MAHE in association with IEEE-MSS on 9th October, 2021.

* Mr. Santhosh Kamath has won 2nd place for paper presentation in PhD Scholar's Research Colloquium 2021 conducted by Department of Computer Applications MIT-MAHE in association with IEEE-MSS on 9th October, 2021.

♣ STUDENT ACHIEVEMENTS

Cultural

* **Mr. Shantanu Sachdev** of VII Semester B.Tech IT won the prestigious Monoact event (soliloquy) at the cultural fest organized by IIM Bangalore, held between 17th–22nd February, 2021.

* **Ms. Suhani Dhumne** of III Semester B.Tech CCE was the winner of War of Superstars, at Cultural Fest organized by IIM Bangalore, held between 17th–22nd February, 2021. She has won the solo dance competition "Get Set Go".

Hackathons and Competitions

* Ms. Radhika Tibrewal and Ms. Shruti Sinha of V Semester B.Tech IT, secured Rank in the PMx 2021: A Product Management Expedition Conducted During Udgam - The Annual Entrepreneurship Summit of IIT G Organized by E-Cell IIT G on 15th to 24th January 2021. Radhika and her team represented MIT as Team YUMITIANS.

* Mr. Adit Luhadia of V Semester B.Tech IT was Recognized as Student Entrepreneur by the Vice-Chancellor, Lt Gen (Dr) MD Venkatesh on 13th, February 2021.

* **Mr. Harsh Rathod** V Semester B.Tech IT secured a rank 68 of 846 in Univ.ai Hackathon 1 GHF Fellowship conducted on 27th March, 2021 and 20th April, 2021. The Geoffrey Hinton Fellowship (GHF) for Artificial Intelligence is a preeminent platform for emerging talent in AI to demonstrate their talents and win cash awards and gain access to world-class internship, employment, and research opportunities.

* He was ranked among the top 10% people who participated in the Hackathon and ranked 2nd from Manipal Institute of Technology. He and his team bagged first position in HackRx2.0 by Bajaj Finserv held on 23rd and 24th July, 2021 and won a prize amount of 1 Lakh Rupees. HackRx is the Annual Hackathon hosted by Bajaj Finserv. They used deep learning and classical image processing to achieve a goal that was faster than only deep Learning approaches. He developed an API that takes in image and gives the required output.

* Mr. Harsh Rathod has been ranked first in Innovation Series Hackathon by GitHub and ICT Dept. MIT Manipal held on 28th and 29th, August 2021. A Hackathon under the Code Innovation Series organized by the ICT Department of Manipal Institute of Technology in collaboration with GitHub. He created a Natural Language Processing solution to search for keywords in a pdf.

* **Mr. Aman Priyanshu** of V Semester B.Tech IT is a scholarship Recipient of the Intel Edge AI Scholarship Program.

* He was the runner up at IEEE BigMM Grand Challenge (2020) for his paper titled "Stance Classification with Improved Elementary Classifiers Using Lemmatization".

* He was also the runner-up in BobHacks where he built a pattern recognition API built on top of the MetaBob API. He won First Prize in HackRx by Bajaj Finserv and ACM UCM Datathon - UC Merced.

* He was also runner-Up at IEEE SBM Manipal. He won First Prize at Community & Civic Engagement track of CalHacks Hackathon (UCBerkley).

* **Ms. Praseedha Praveen Kalbhavi**, of V Semester B.Tech CCE participated in Google Solution Challenge and Hackmakers #world Innovation Day Challenge. She was selected as a delegate for Harvard Project for Asian and International Relations (HPAIR) Asia Conference February, 2021 scheduled this August. She and her team was also awarded Generation Google Scholarship in the APAC region 31st May, 2021

* She also participated in the "American Express Codestreet Hackathon" from 13th August to 8th October, 2021. She participated in the theme Open Banking and emerged as the 1st Runners Up of this national challenge.

* **Mr. Varun Kabra**, VII Semester B.Tech IT was recognized as Economic Stars Campus Stars, Class of 2021 by Economic Times on 28th June, 2021. It had organized a 4 phase competition which took 6+ months to identify India's brightest Engineering minds and Varun was one of the 87 selects across India

* **Ms. Siddisa Banerjee**, VII Semester B.Tech IT was the first runner up and Bagged a cash prize of ₹ 3000 on National level Ideathon, conducted by the VVCE, IEEE Computer Society Student Chapter on 28th and 29th June 2021

MAHE Achievers
Mr. Ishan Kumar

* **Ishan Kumar** V Semester B.Tech IT along with his team members, came in first at the 24-hour Code for Good Hackathon organised by JP Morgan Chase & Co. In the competition, Ishan and his team were tasked with the creation of a specialised web portal for Youngistaan Foundation. The competition was held between 8th to 11th July, 2021.

* Team MIT, consisting of **Ishan Kumar** (IT), **Pranshul Goyal** (CSE), **Rhea Adhikari** (CSE), **Adit Luhadia** (IT), and led by Dr. Ramya S, Associate Professor at the Department of ECE, secured the 2nd runners up position at HACK'E'LTH 2021. The MIT Team was challenged to implement Progressive Web Apps (PWA) which can seamlessly work with any device. The competition was held during September–November 2021.

MAHE Achievers

* **Sahil Khose** of VII Semester B.Tech CCE is the recipient of IGVC Awards: Interoperability – 1st, Design – 2nd, Cybersecurity – 3rd and won Grand prize-Lescoe Cup. His Project MANAS won the Million Dollar Mahindra Rise Prize (top 13 out of 153 teams in India). He also led a team of 3 to secure an All India Rank 19 in the Flipkart GRiD 2.0-level 1

* **Garvit Arora** of V Semester BTech CCE was the winner of the Fastest finger, Day 1 in days' quiz contest that was organized on 15th, 16th, and 17th November 2021 during NOKIA UC conducted its annual event, "Nokia University Conclave-2021".

* **Muskan Budhraja** III Semester BTech IT secured the prize for co-hosting the events at NOKIA UC conducted its annual event, "Nokia University Conclave-2021" on 15th, 16th, and 17th November 2021.

* **Mr. Shamanth Nayak** of VII Semester B.Tech CCE, has received MITACS Globalink Research Internship Scholarship during December, 2021 (GRI, Canada)

* **Ms. Krithika M Pai** of VII Semester B.Tech CCE has received MITACS Globalink Research Internship Scholarship during December, 2021 (GRI, Canada)

* **Ms. Smriti Singh** of VII Semester B.Tech IT, have received MITACS Globalink Research Internship Scholarship during December, 2021 (GRI, Canada) , Grace Hopper Celebration Scholarship 2021, the EmTech MIT Scholarship 2021 and the PyData Global Impact Scholarship 2021.
* She was also an invited speaker at PyData Global 2021 and FruitPunch AI Connect 2021.

* **Mr. Pratyush Bhatt, Ms. Anoushka Sinha and Ms. Smriti Singh** of V B.Tech IT won the Runner Up Prize in the Microsoft Student Hackathon under the Category "CS for Education".

* **Ms. Garima Singh** of V B.Tech IT is one of the recipients of the IRIS-Hep Fellowship.

Sports

* **Mr. Shrey Deshmukh** of V Semester B.Tech CCE, won 2nd in Gender Category Rank (Male) and 1st in Age Category Rank (15 to 19 years) in the Group Relay 5k (2×2.5km) event conducted by TCS World 10k Bengaluru on 10th January, 2021.

"Go as far as you can see; when you get there, you'll be able to see further." —Thomas Carlyle