# Cache - CSE :

NPTEL-SWAYAM :

NPTEL-SWAYAM Online courses conducted during July to December 2020 hundreds of our students enrolled and took different courses in this duration. Online examinations conducted for the same at specified centers in Karnataka, our department students took the exam in Hubballi center. The results of the examination are announced and Mr. Suhas NS and Ms. Suchitra Hiregowdar Successfully cleared the examination in the courses Database Management Systems and Cloud Computing respectively.
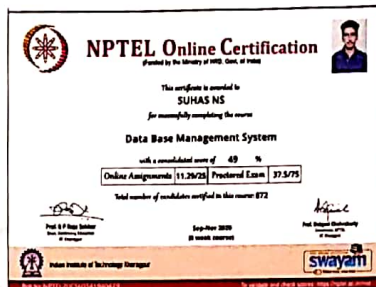
AICTE-ATAL Sponsored FDP :

Mr. Kotreshi S N, Assistant Professor, Department of CSE has attended an online Five-day AICTE-ATAL Sponsored FDP on **"Potential Research Avenues in Computer Science and Biology"** from 19th to 23rd January 2021 conducted by MCE, Hassan.

Mr. Kotreshi S N, Assistant Professor, Department of CSE has been shortlisted as NPTEL Translator for Kannada Language from NPTEL, IITM.

AICTE-SPICES Grant :

Mr. Shivanna K, Assistant Professor, Department of computer science and engineering has submitted the proposal for funding (One Lakh) to the AICTE under the AICTE-Scheme for Promoting Interests, Creativity and Ethics among Students (SPICES) on 30th November 2020, and the proposal is prepared under the guidance of Dr. Sanjay Pande M B, Professor and Head, Department of Computer Science and Engineering. The proposal is got selected from the AICTE on 19th January 2021. The sanctioned amount will be utilized for conducting various technical activities which enhances the creativity and ethics among student group.


Mr. Shivanna K   Dr. Sanjay Pande M B

Poster Presentation :

Mrs. Sushma S G conducted Poster Presentation Competition for 3rd sem students of Dept. of CSE on 29/01/21 under the banner of Forum FALCON. Students of the 3rd sem made a poster of various models of Software Engineering. Judges to this event are Dr.Mouneshachari S, Mr.Santhosh Kumar M and Mr.Kotreshi S N. Total ten teams participated and two teams were selected as Winners. Dr. Y. Vijaya Kumar, Principal, GMIT, and Dr. Sanjay Pande M B, Professor and Head of Dept. of CSE handed over the prizes to the Winners.

Paper Publication :

Dr. Sanjay Pande M B, Professor, and Head, Department of Computer Science and Engineering, Published a research paper titled. Energy-Efficient Routing Protocol For Wireless Body Area Networks (Eer-W) Using Cost Computation And Controlled Hello Packet Broadcast, S. R Hemanth, and Dr. Sanjay Pande M B, Indian Journal Of Computer Science and Engineering, Vol X No X 1-5, 2021.

"C" Workshop :

Five Day Hands-on Workshop on **"C Programming Fundamentals & It's Applications"** for 3rd-semester students of Department of CS&E was conducted from 18th to 22nd January, under the banner of Forum FALCON 20-21. All the faculties of the Department have participated as resource persons to uplift the 'C' language skillset of students. Dr. Y Vijaya Kumar, Principal, GMIT, Dr. Sanjay Pande M B, Professor & Head, Dept. of CSE and Mr. Tejasvi Kattimani T R, Training & Placement Officer, GMIT Inaugurated the workshop by watering the plant. The impact factor of the hands-on workshop was done by taking Pre and Post activity quiz in google forms.

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Cache - CSE :

Ph. D Course Work :

Mr. **Santoshkumar M** and **Mr. Aruna Kumar B T** have successfully completed their course work in VTU Ph.D. course work examination conducted during November 2020.
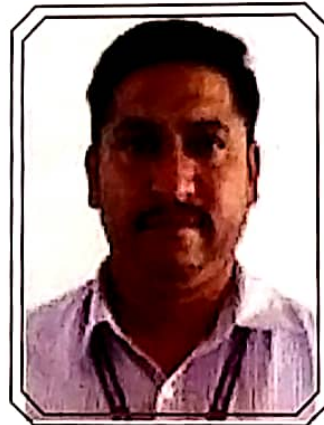
Dr. Mouneshachari S, Associate Professor has successfully submitted a Modernization and Removal of Obsolescence (MODROBS), AICTE proposal titled **"Internet of Things and Its Application Development Laboratory"** on 01st February 2021.

Memorandum of Understanding (MOU)Tequed labs, Bangalore :

Department of Computer Science & Engineering, GMIT, Davanagere signed a Memorandum of Understanding (MOU) with **Tequed labs,** Bangalore on 1st February, 2021 in the presence of **Dr. Y Vijaya Kumar,** Principal, **Dr. Sanjay Pande M B,** Professor & Head, Dept. of CS&E, **Mr. Nithin & Anirudh** from Tequed Labs, Bangalore, **Dr. Mouneshachari S,** Associate Professor, **Mr. Santosh Kumar M, Mr. Kotreshi S N,** Assistant Professors, Dept. of CS&E along with **Mr. Maruthi S T,** Assistant Professor, Dept. of CS&E who was faculty in charge of the overall event.

Tech Geek Session :

One Day Tech Geek Session on **"Recent Trends in Technology"** for 1st Semester Students of all the departments was conducted on 1st February 2021 under the banner of Forum **FALCON 2020-21** at Kalpana Chawla Seminar Hall, Department of CS&E GMIT. **Dr. Y Vijaya Kumar,** Principal, GMIT, **Dr. Sanjay Pande M B,** Professor & Head, Dept. of CSE, **Mr. Nithin & Anirudh** from Tequed Labs, Bangalore, **Dr. Mouneshachari S,** Associate Professor, Dept. of CSE were gracing the occasion along with **Mr. Maruthi S T** who coordinated the overall event.

Mr. Anirudh, Manager, Tequed Labs addressing the first-year students during the inauguration of Tech Geek Session.

Mr. Nithin, Manager, Tequed Labs delivering information regarding cutting edge technologies to all first-year participants during the Tech Geek Session.

3 Day Hands-on Workshop on "Arduino Programming" :

Three Day Hands-on workshop on **"Arduino Programming"** for 1st Sem Students of all the departments was conducted from 25th to 27th February 2021 under the banner of Forum **FALCON 20-21** at Kalpana Chawla Seminar Hall, Department of CS&E GMIT. **Dr. Y Vijaya Kumar,** Principal, **Dr. Sunil Kumar B S,** Dean Academics & Professor, Dept. of IS&E GMIT, **Dr. Sanjay Pande M B,** Professor & Head, Dept. of CS&E, **Dr. Onkarappa K S,** Professor & Head, Dept. of Mathematics, **Mr. Aditya,** CTO, Tequed Labs, **Mr. Nithin & Anirudh,** Managers from Tequed Labs, Bangalore, were present during the inaugural event. Soon after the inauguration, the session was started and a total of 5 hands-on sessions were conducted with the help of a hardware kit which was distributed among the students. Students were happy and curious to learn Arduino programming with practical knowledge. Ideathon was conducted on the last day of the workshop and winners got their certificates and goodies. All the participants got their participation certificates soon after the valedictory function held on the last day. **Mr. Maruthi S T,** Assistant Professor, Dept of CS&E coordinated the overall event congratulated & thanked all the participants for their successful completion of the workshop.

A random picture taken during the workshop

Team UNO-Winners of Ideathon conducted during third day of the workshop

IEEE Webinar :

Dr. Mouneshachari S, Associate Professor has attended a webinar on **"Mathematical Formulation and Application of Kernel Tensor Decomposition Based Unsupervised Feature Extraction"** on 15th Feb 2021 conducted by IEEE Information Theory Society (ITS) Bangalore Chapter.Resource person, Prof. Y-h. Taguchi, Professor, Dept of Physics, Chuo University, Tokyo, Japan addressed about choosing / selecting small number of parameters among large number of parameters for clustering and classification models.


VGST Funds :

Mr. Shivanna K and **Mr. Kotreshi S N**, Assistant Professors, Department of CSE have submitted the research proposal titled **"Implementation of Lightweight Cryptographic Techniques for Secure Data Transmission in Cloud based IoT Devices"** for funding (Three Lakh Rupees) to the VGST under RGS/F-Research Grants for Scientist/Faculty Scheme on 21/02/2021.

IEEE Membership :

Dr. Sanjay Pande M B, Prof & Head, Department of CSE, GMIT and **Dr. Mouneshachari S**, Associate Professor, Department of CSE, GMIT have been recognized as Senior Members by IEEE, the world's largest technical professional organization for the advancement of technology. This membership is approved for their personal and professional commitment and contribution towards the advancement of technology.
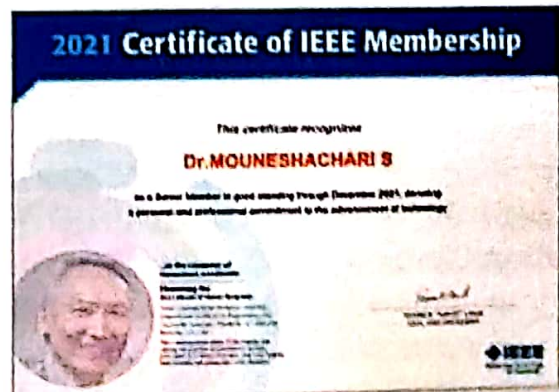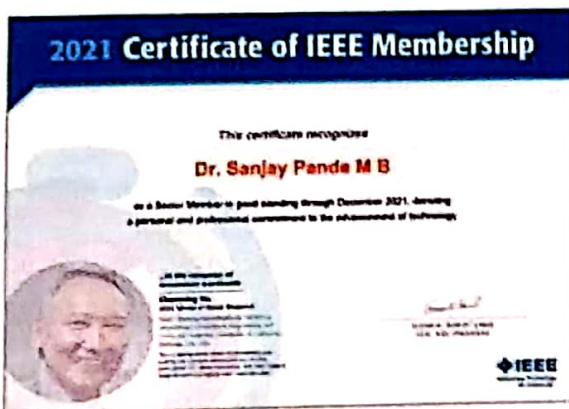
Cache - CSE :

Patent Filed :

Mr. Maruthi S T, Assistant Professor has filed a patent on **"AI-Based Crop Yield Protection and Control with Efficient use of Fertilizers using IOT"** (Patent No:202141009208) on 5th March 2021. The proposed model explores the use of IoT in the field of agriculture and aims at increasing crop yield by helping in predicting better crop sequences for a particular soil. This also improves farming methods, leads to an increase in productivity and effective use of limited resources.

Workshop attended :

Mr.Santoshkumar M, Mr.Arunakumar B T, Mr.Sandeepa G S, Mr.Niranjan Murthy C and Mrs.Sushma S G Assistant Professors of the department have attended Three Day FDP on **"Understanding Research Methodology and Bibliometrics"** organized and conducted by the Department of Electronics and Communication Engineering, GMIT, Davanagere in association with Manipal School of Information Sciences, MAHE, Manipal from 18th to 20th March 2021.

Journal - Certificate :

Dr. Sanjay Pande M B, Professor, and HoD and **Dr. Mouneshachari S**, Associate Professor of the department have received a certificate of publication on the paper titled **"Indexing Intelligence using Benchmark Classifier"** from the Indonesian Journal of Electrical Engineering and Computer Science, a SCOPUS indexed International Journal.
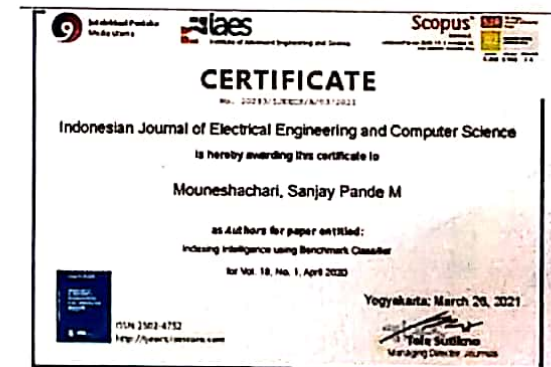
Dr. Mouneshachari S, Associate Professor in association with CO-PIs has successfully submitted the following proposals.

SN	Title of the proposal	Agency	COPI	Date of Submission	Proposed Grant
1	Five Day Face to Face FDP on The role and Importance of Machine Learning in Next Generation IoT Applications	AICTE Training And Learning (ATAL) Academy	Mr.Rudresh N C	03.03.2021	1.98 Lakhs
2	Smart Indian Kitchen using IoT (Only for Indian Recipes)	Federation of Karnataka Chambers of Commerce & Industry, Bangalore	Dhanashree R Patil Divya R Kavya G Sohail Ali P R 3rd Year Students of CSE	20.03.2021	6 Lakhs
3	eCracker: Drone based Design and Development of Safe and Environment friendly Electronic Gadget controlled using Mobile App	VTU-Belagavi	Dr. Praveen J, Professor & Head, Dept of ECE Mr.Sivaprakasha Palleda, Asst. Prof., Dept of Mech	24.03.2021	23.5 Lakhs

Cache - CSE :

Project :

Under the guidance of **Mr. Rudresh N C**, Asst. Professor Department of Computer Science and Engineering a final year students (Kavana D K, Apoorva M R, Ranjitha K R and Vinayak H K) project bearing the title **"Image-Based Diagnosis of Covid-19"** and proposal reference number 44S_BE_1097 has been selected for the KSCST funding of rupees 3000/- for the current academic year 2020-21.

Dr. Sanjay Pande M B, Professor, and Head and **Mr. Shivanna K**, Assistant Professor, Department of Computer Science and Engineering submitted the proposal for funding (One Lakh) to the AICTE under the AICTE-Scheme for Promoting Interests, Creativity and Ethics among Students (SPICES) on 30th November 2020. The proposal has been selected and the amount of Rs. One Lakh has been sanctioned on 23rd March 2021. The amount has to be utilized for conducting various technical activities which enhances the creativity and ethics among student group.

Mr. Shivanna K, Assistant Professor, Department of Computer Science and Engineering, defended his Ph.D. thesis on the Title **"Techniques for Data Protection in Cloud Computing"** on 16th April 2021. He worked under the guidance of **Dr. Prabhudeva S**, Professor and Director, Department of Master of Computer Applications, J N N C E, Shimoga. He did his Ph.D. at Visvesvaraya Technological University, Belagavi.

Under the guidance of **Mr. Sandeepa G S**, Asst. Professor Department of Computer Science and Engineering a final year student project (Rithika Reddy V B, Karthik M Hadagali, Priyanka M N, Pradeep Kumar B) with the title- **"Face mask detection and thermal scanner for Covid care"** and proposal reference number- 44S_BE_2545 has been selected for the KSCST funding of rupees 4000 for the current academic year 2020-21.

Cache - CSE :

Department of Computer Science & Engineering family is added with new two faculties by name **Mrs. Sandhya R Savanur** and **Mrs. Kavyashree P N**. Mrs.Sandhya R Savanur was working in Infosys and having experience in running her own industry corresponding to software design and developments. She can contribute well to the Department / Institution in connection with pre-placement and entrepreneurship activities. Mrs. Kavyashree P N is having very good knowledge of Artificial Intelligence and Machine Learning. She can contribute well to the department in connection with Research and Developments, Publications and Patents in the area of said domain.

Mrs. Sandhya R Savanur

Mrs. Kavyashree P N

## Internal Internship/Professional Practice (17CS84) Seminar :

Final Year students had gone through Internship Practice in various organizations like APCOGSYS, TEQUED LABS, VERGEO, REDWHY, ENDFRII and other reputed startups and industries during Aug-Sept 2020. As per the university clause an internal presentation of the Internship practice has been conducted from 3rd to 6th of May 2021. Students have chosen their problem statements in various areas of Computer Science and Engineering namely Machine Learning, Cloud Computing, Web Technologies, Artificial intelligence and so on. Final year students presented their internship topics by online modein presence of the panel members that constitute Guide, Internship Coordinator and a Senior Faculty member. All the presentation recordings have been taken and it is made department digital library. Assessment has made based on the rubrics prepared for the course Internship/Professional Practice (17CS84).
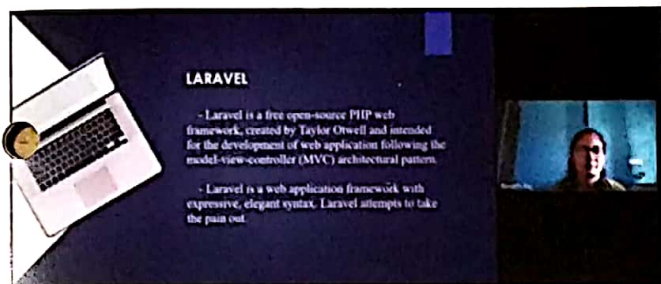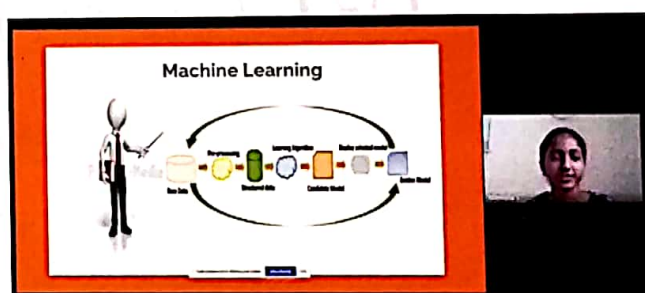
Ms. Anusha MH (Batch-01) Presentation on Topic CV Builder using LARAVEL Framework.
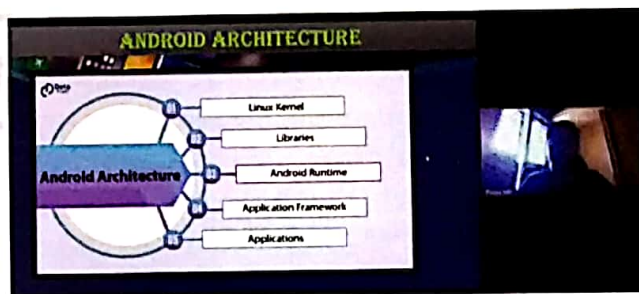
Ms. Pooja MR (Batch-10) Presentation on Topic "Library Management using Android APP"
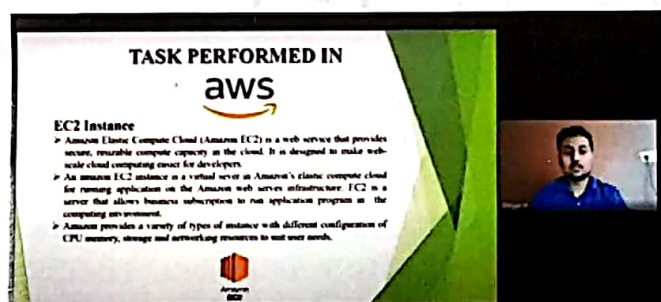
Mr. Shrijan H (Batch-08) Presentation on Topic "AWS Cloud"

Ms. Nikhitha S (Batch-08) Presentation on Topic "Machine Learning"

Webinar on "IOT and its Prototypes"

Mr. Rudresh N C, Asst. Professor, Dept. of CSE, has organized a webinar on **"IOT and its Prototypes"** as a forum activity on 28-5-2021 (Friday), Speaker Mr. Karibasavaraju, Director-SumukhaInfotech, Davangere has briefed about the current trends on IoT and its benefits also shared knowledge on different sensors and its applications by executing simple programs using ESP-32 development board. Also, he explained simple example programs for finding soil moisture using required hardware and software's. Students of the 6th and 8th semesters were attended the webinar and taken benefits. Finally, the webinar is concluded by vote of thanks and feedback from the participants.

Interaction of Resource person

Five-day FDP on Data Structure and Algorithms using Python :

Mr. Maruthi S T, Asst. Professor, Dept. of CS&E, GMIT has participated and received a certificate from AICTE-ISTE SponsoredFive Day Hands-on Workshop/Refresher Program on **"Data Structures & Algorithms using Python Phase (III)"** which was conducted from 18th to 25th May, 2021 organized by the Department of IT, Priyadarshini Institute of Engineering & Technology, Nagpur

Certificate

This is to certify that *MARUTHI S T* has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on *"Data Structure and Algo Using Python"* held during 18.05.2021 to 23.05.2021 organized by *Priyadarshini Institute of Engineering and Technology, Nagpur, Maharashtra.*

Director (FDC)
AICTE, ND

Executive Secretary
ISTE, ND

Programme Coordinator
PIET, Nagpur

Principal
PIET, Nagpur

Cache - CSE :

Dr. Sanjay Pande M B, Professor, Department of Computer Science & Engineering has successfully attended the webinar on **"COVID-MENTAL HEALTH: GRIEF & LOSS"** on 13th June 2021, conducted by Psychowellness Center, New Delhi in association with Talk to Angel, Bangalore.

Mr. Maruthi S T, Asst. Professor, Dept. of CS&E, GMIT has received a certificate for attending the Five Day Hands-on Online National LevelSkill Development Program on **"Mobile Application Development"** which was conducted from 14th to 28th June 2021 organized by the Department of CSE, ECE & ISE, A J Institute of Engineering & Technology, Mangaluru.

Mr. Santosh Kumar Mahendrakar has attended 5-day Faculty Development Program on **"Machine Learning Using Python Programming"** organized by the Department of Information Science and Engineering, AJ Institute of Engineering and Technology Mangaluru-575006 from 1/6/2021 to 5/06/2021.

Mrs. Sushma S G, Assistant Professor, Department of Computer Science and Engineering has published a paper titled **"An Android Application for Cloud and Web-based Smart Vehicle Toll Payment System"** in International Journal of Innovative Research in Computer and Communication Engineering, Volume 9,Issue 6,June 2021.

Online talk :

Mr.Thippeswamy G N, System Analyst, GM Institute of Technology has delivered an online talk on **"Search Engine Optimization"** to the audience community connected to Research Scholars, Job Seekers in Digital Marketing, BCom, BSc, BCA, BE, and II PU students. This event was organized by GMHPU College, Davangereon on 27th May 2021.

Internship at Siemens Technology and Services Private Ltd. :

Siemens is a technology company focused on industry, infrastructure, transport, and healthcare. Our department students **Ms. Suchitra Hiregowda, Mr. Aamir Maqbool,** and **Ms. Rashmi Khamithkar** have completed a special internship program in Siemens Technology and Services Private Ltd. Our students from 6th sem had undergone an interview, these three were shortlisted and joined as an internee in March 2021 and completed their four months Internship in June 2021. They worked on the project **"Vulnerability Assessment and Penetration Testing (VA PT)"** using open source tools and submitted five different types of reports. During the final presentation experts from Siemens were very much appreciated their work.

Mrs. Shobha Patil, Alumni of GMIT and Founder of BPA Labs, had given constant support in getting this opportunity to our students. Our Principal **Dr. Y Vijayakumar** encouraged us to promote this special activity for the benefit of students.

Our department Head **Dr. Sanjay Pande M B**, Internship Coordinator **Mr. Kotreshi S N,** and all faculties congratulated the students.

Project Team Selected for I2CONNECT Exhibition by IEEE Mangalore Subsection :

A project entitled **"ROBOT BASED PATIENT DATA MONITORING SYSTEM"** selected for the final round of the project exhibition and competition, Virtual mode I2CONNECT, conducted by IEEE Mangalore Subsection in Sahyadri College of Engineering.

The project team guided by **Mr. Kotreshi S N** and team members Ms. Anusha M H (4GM16CS003), Revathi K R (4GM16CS037), Amulya C J (4GM17CS003), Rashmi M C (4GM17CS025).

International Day of Yoga -2021 from FALCON CLUB :

Our department as a part of the FALCON CLUB activity celebrated International Day of Yoga -2021 on 21st June 2021. Our department made an announcement to our students and faculty to perform Yoga from their homes. Also, we asked to take photographs of the poses and upload those photos through a prepared Google form. Many students and faculty actively participated and uploaded photos. This event was coordinated by **Mr. Santoshkumar M, Mr. Kotreshi S N,** and **Mr. Maruthi S T.**

Cache - CSE :

Participation Certificate :

Mr.Rudresh N C, Assistant Professor of CS&E department has participated in a webinar on "NEP 2020- Planning and Implementation" conducted by RV College of Engineering, Bangalore in association with the AICTE Margadarshan Scheme on 16th July 2021. The agenda of the webinar is to improve and implementation of the National Education Policy to the upcoming academics and about resource requirements and benefits of NEP.

Paper Publication :

Mr. Rudresh N C, Assistant Professor of CS&E department has published a paper with the title **"New Machine Learning Method for Image-Based Diagnosis of Covid-19"** in an International Journal of Current Engineering and Scientific Research (IJCESR) with ISSN (Print): 2393-8374, (ONLINE): 2394-0697, VOLUME-8, ISSUE-6, 2021.

Dr. Shivanna K, Assistant Professor, Department of Computer Science and Engineering has received Provisional Degree Certificate from Visvesvaraya Technological University, Belagavi on 29th June 2021 for his successful completion of the Ph. D. He has completed final defense on 16th April for the thesis **"Technique for Data Protection in Cloud Computing"** under the guidance of Dr. Prabhudeva S, Professor and Director, J N N College of Engineering, Shivamogga.

Mr.Maruthi S T, Mrs.Sandhya R Savanur and Mrs.Kavyashree P N Asst.Professors of the Department of CSE have attended three days Train The Trainer(TTT) Program on "Java Programming" during 16th, 17th and 18th June 2021. The training program is conducted By Campus Connect Initiative by INFOSYS through Online (Cisco Webex Platform). This program is intended to train the faculties to further train the students on Java programming and application development.
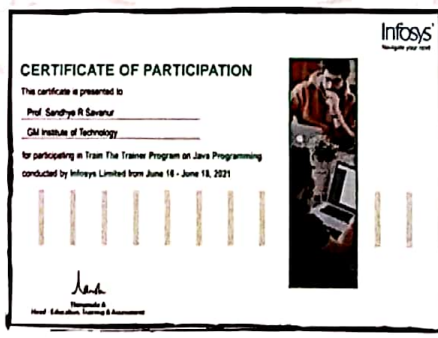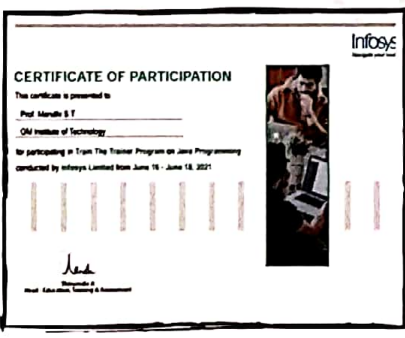
Ms. Sandhya R Savanur, Assistant Professor, Department of Computer Science and Engineering has attended a 5-Day Faculty Development Program on **"Android Development with Kotlin"** conducted by ICT Academy from 26th Jul 2021 to 30th Jul 2021.

Department of Computer Science & Engineering has bagged Best Paper and Best Presentation Awards in the 2nd International Conference on Emerging Trends in Science, Engineering and Management (ICETSEM 2021) held on 15th and 16th of July 2021. The principal, HoD, Staff and Students of the department congratulated the teams.

Type of award	Title and Paper ID	Under the Guidance	Faculty	Student Team
Best paper	Face Mask Detection and Thermal Scanner for Covidcafé ICETSEM_2106231654	Sandeepa G S		Karthik M Hadagali, Rithika Reddy V B, Pradeep Kumar B S, Priyanka M N
	POTHOLE DETECTION ICETSEM_2006253709	Santosh Kumar M		Rekha H R, Sahana G N, Swapna M Sogi, Tejaswini B U
	Hello GMIT – Search Engine Optimization to enable audio ecosystem for localization of ALEXA ICETSEM_2506243568	Dr Mouneshachari S		Anandachari M M Prajwal M P Vidyasagar K O
Best paper Presentation	Android Application for Health Care Management ICETSEM_3006190326	Dr. Sanjay Pande M B		Pooja MR, Roopa KJ, Saleena AB, Usha KS

Dr. Sanjay Pande M B, Professor, and Head, and **Dr. Mouneshachari S**, Associate Professor, have attended thirty days Innovation Ambassador Training (Foundation Level) programme from 30th June to 30th July. This event is organized and conducted by the Ministry of Education in association with AICTE, New Delhi. The main agenda of the training program is to prepare innovation experts or mentors at the institution level in line with the action plan of the Institutions Innovation Council, Govt. of India.

Mr. Kotreshi S N has attended five-day Faculty Development Program on **"Digital Forensics and Investigations"** in AICTE Training and Learning (ATAL) Academy, organized and conducted by KLE University in association with 3rd Eye Techno Solutions Pvt. Ltd. New Delhi.

Mr. Santoshkumar Mahendrakar, Assistant Professor in CSE, received the Best Paper presentation Award in ICETSEM 2021, on the research topic " **Survey on Growth Prediction of Plants using Image Processing and Machine Learning"**