CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY (A)

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COMMITTED TO RESEARCH, INNOVATION AND EDUCATION

42 years

Department of Information Technology

JULY- DECEMBER 2020

ISSUE 1

Inside this Issue

Our Vision

To be a center of excellence in the field of information technology that yields pioneers and research experts who can contribute for the socio-economic development of the nation.

Our Mission

To impart state-of-the-art value-based education in the field of Information Technology.

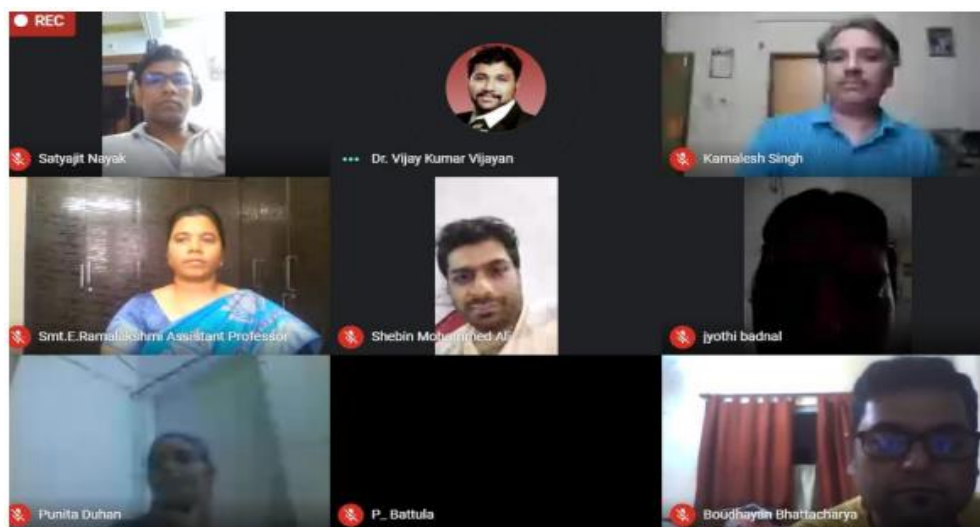*To collaborate with industries and research organizations and excel in the emerging areas of research.*
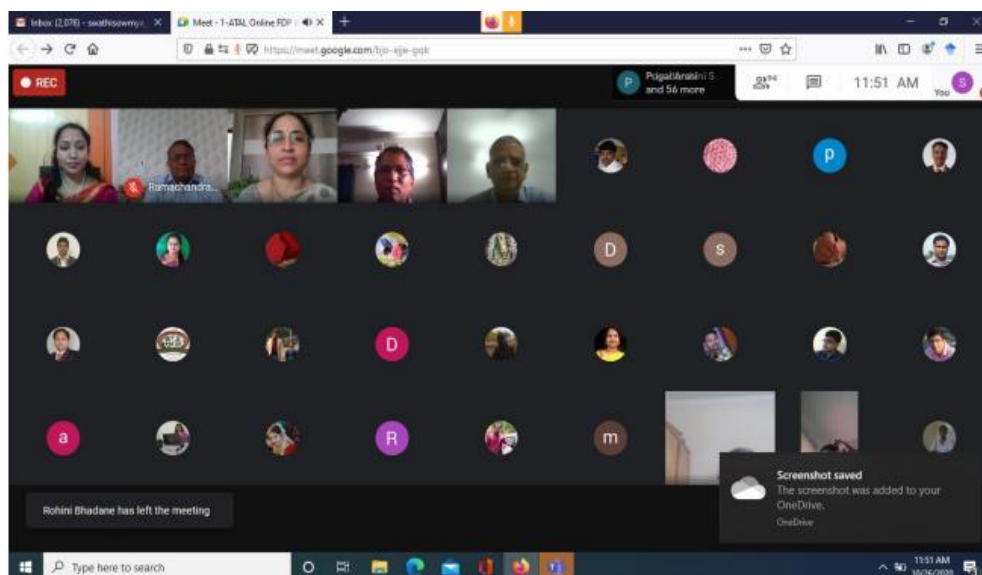
To imbibe social responsibility in students.

To motivate students to be trend setters and technopreneurs.

1. CO-CURRICULAR & EXTRA CURRICULAR ACTIVITIES

❧ Faculty Development Program Organized

❧ Mrs E Ramalakshmi and Ms. Pragati Priyadarshinee has organized 5 Day Online Faculty Development Program under AICTE Training & Learning **(ATAL)** Academy on 'Augmented/ Virtual Reality' from 26-10-2020 to 30-10-2020 in which around 106 participants from different parts of the country participated.

❧ Guest Lectures Organized

❧ A Guest Lecture on "Big Data Analytics using Spark" was given by Dr. Srinivasulu, A Head of Research and Development in Blue Crest University College, Monrovia, Liberia on 19- 11-2020 for VII Semester Students in online mode.

❧　　Workshops/ Conferences Attended

- ❧ **Dr. K. Radhika**, attended "Data Science for All", online FDP from 7/27/2020 to 8/8/2020

- ❧ **Dr D L Sreenivasa Reddy**, attended "Supervised and Unsupervised Machine Learning using Google Cloud", Online STTP from 10/12/2020 to 10/12/2020, "Writing and Publishing high Impact Research Publications and Scientific Documents", Online STTP from 10/5/2020 to 10/10/202, "Two weeks workshop on Internet of Things under TEQIP-III", Online Workshop from 28/09/2020 to 10/10/2020, "ATAL one Week FDP on IoT", Online FDP from 9/7/2020 to 9/11/2020, "ATAL Academy Online FDP on "Data Sciences", Online STTP from 10/12/2020 to 10/12/2020, "One Week Workshop on Role of Machine Learning & Data Sciences in AI", Online Workshop from 28/6/2020 to 7/2/2020

- ❧ **Ms. K.Sugamya**, attended "The High Performance Intelligent Real Time Embedded System Design and Internet of Things to accelerate automation system into autonomous system", Online STTP from 9/1/2020 to 9/7/2020, "Deep Learning Using Python", Online STTP from 8/3/2020 to 8/7/2020, "Recent Advancements in Internet of Things for Healthcare Applications", Online STTP from 7/27/2020 to 8/1/2020

- ❧ **Ms. A. Sirisha**, attended "Data science applied to industries", Online FDP from 8/17/2020 to 8/21/2020

- ❧ **Ms. M Trupthi**, attended "Faculty Development Programme on Data Structures using Python", Online FDP from 8/3/2020 to 10/8/2020, "Data Science for ALL", Online FDP from 7/27/2020 to 8/8/2020, "FDP on Data Science", Online FDP from 7/1/2020 to 7/1/2020, "Machine Learning and Data Analytics with Python", Online Workshop from 10/13/2020 to 10/16/2020

- ❧ **Ms. E Ramalakshmi**, attended "ATAL Academy Online FDP on Augmented Reality (AR)/ Virtual Reality (VR)", Online from 9/7/2020 to 9/11/2020, "Five Days Online Faculty Development Programme On Current Trends and Research Opportunities in Information Technology", Online from 7/6/2020 to 7/10/2020, "ATAL Academy Online FDP on " Short Term Training Program (STTP) on "Machine Learning", Online STTP from 7/27/2020 to 7/31/2020, "ATAL Academy Online FDP on " One Week Online Faculty Development Program on "Research Opportunities in Image Processing and Machine Learning", Online FDP from 6/29/2020 to 7/3/2020, "Two Days Online Workshop on "Free and Open Source Alternative for Web Conferencing and Teaching Learning", Online Workshop from 7/15/2020 to 7/16/2020, "ATAL Academy Online FDP on "Augmented Reality (AR)/ Virtual Reality (VR)", Online Workshop from 7/25/2020 to 7/25/2020

- ❧ **Ms. Prathima Tirumalareddy**, attended "Avenues in Machine Learning Approaches for Pattern Recognition", Online STTP from 8/24/2020 to 8/29/2020, "Research Opportunities in Image Processing and Machine Learning", Online FDP from 6/29/2020 to 7/3/2020, "Data Science for All", Online FDP from 7/27/2020 to 8/7/2020.

- ❧ **Ms. Satya Kiranmai Tadepalli**, attended "Data Science Behind Natural Language Processing", Online FDP from 7/6/2020 to 7/10/2020, "FDP on Data Science", Online FDP from 7/1/2020 to 7/24/2020, "MTA bootcamp Certification Program on Python", Online FDP from 7/8/2020 to 7/18/2020.

- ❧ **Mrs Kratika Sharma**, attended "Data Science: Unfolding Layers of Knowledge", Online STTP from 30/11/2020 to 05/12/2020, "AICTE Incorporating Universal Human Values in Education", Online FDP from 22/12/2020 to 27/12/2020.

- **Mr. S. Rakesh**, attended "Cyber Security in Practical Aspects", Online FDP from 9/1/2020 to 9/5/2020, "From Data to Insights", Online FDP from 9/5/2020 to 9/5/2020, "Quality Enhancement Techniques", Online Workshop from 9/12/2020 to 9/12/2020.

- **Ms. Pragati Priyadarshinee**, attended "Internet of Things based Green Energy Systems", Online FDP from 9/14/2020 to 9/19/2020, "Recent Advancements in Technical Domains", Online FDP from 8/24/2020 to 9/7/2020, "Internet of Things based Green Energy Systems", Online FDP from 7/23/2020 to 7/28/2020.

- **Ms. B. Sarada**, attended "Augmented Reality (AR)/ Virtual Reality (VR)", Online FDP from 10/12/2020 to 10/16/2020, "Data Analysis in R using STATCRAFT", Online Workshop from 10/8/2020 to 10/9/2020, "Artificial Intelligence", Online FDP from 9/21/2020 to 9/25/2020, "Machine Learning with Web Development", Online Workshop from 7/6/2020 to 7/10/2020, "Outcome Based Education", Online FDP from 10/6/2020 to 10/8/2020, "Outcome Based Education and Accreditation", Online Workshop from 9/11/2020 to 9/11/2020, "Hands-On-Free Workshop On Python", Online Workshop from 7/25/2020 to 7/25/2020.

- **Ms. B. Surya Samantha**, attended "Malware Analysis And Reverse Engineering", Online Workshop from 7/15/2020 to 10/17/2020, "DevOps", Online Workshop from 7/12/2020 to 7/12/2020.

- **Ms. Swathi Sowmya Bavirthi**, attended "Deep Learning using Python", Online FDP from 8/3/2020 to 8/7/2020, "Data Science behind Natural Language Processing", Online FDP from 7/6/2020 to 7/10/2020, "Faculty Development Program On Data Science", Online from 7/8/2020 to 7/24/2020, "Python MTA Certification Bootcamp", Online FDP from 7/8/2020 to 7/18/2020.

- **Ms. Y.Gnyana Deepa**, attended "BlockChain Architecture,Ethereum and Hyperledger", Online FDP from 7/8/2020 to 7/12/2020, "FDP on Data Science", Online from 7/1/2020 to 7/24/2020, MTA bootcamp Certification Program on Python", Online FDP from 7/8/2020 to 7/18/2020 "Machine Learning and Data Analytics with Python", Online FDP from 10/13/2020 to 8/7/2020, "Deep learning using Python", Online FDP from 8/3/2020 to 8/7/2020.

- **Mr. Rajesh Kannan K**, attended "Big Data Analytics", Online STTP from 7/27/2020 to 8/1/2020 and "CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR –SRTP)-2020 Online", Online STTP from 6/1/2020 to 8/31/2020.

- **Mr. P Vasanth Sena**, attended "AICTE Training And Learning (ATAL) Academy", Online FDP from 10/26/2020 to 10/30/2020 on "Data Science for All", Online FDP from 7/27/2020 to 8/8/2020 on "Data Science".

- **Ms. Deepa R**, attended "Current research trends in computer science (CRCTS)", Online FDP from 7/29/2020 to 8/2/2020 and "Amrita-Hebeon online webinar cum workshop on "Cyber Security", Online FDP from 7/7/2020 to 7/12/2020.

2. PAPER PUBLICATIONS BY FACULTY

International Journals

- **Dr. K. Radhika**, "Disease Diagnosis with Medical Prescription", Aegaeum Journal, Vol. 8, Issue 7, July 2020, ISSSN: 0776-3808

- **Dr. K. Radhika**, "A Survey on Building an Effective Intrusion Detection System (IDS) using Machine Learning Techniques, Challenges and Datasets", International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8 Issue VII, July 2020, ISSN: 2321-9653/ SJ Impact Factor: 7.429

- **Dr.B.Veera jyothi**, "A Fuzzy Logic Controller for Estimation of Proof stress in GMAW Process", Juni Khyat, Vol-10 Issue-7, July -2020.

- **Ms. T. Satya Kiranmai**, " Application of Machine Learning and Artificial Intelligence Techniques for IVF Analysis and Prediction " International Journal of Big Data and Analytics in Healthcare Jul-20 ISSN:2379-738X 21-33 10.4018/IJBDAH.2019070102

- **Mr. S. Rakesh V. Hyndavi, N. Sai Nikhita**, "Smart Wearable Device for Women Safety Using IoT", Proceedings of the Fifth International Conference on Communication and Electronics Systems (ICCES 2020), July 2020.

- **Dr. Pragati Priyadarshinee**, "Blockchain in Agriculture: An Application Perspective" Aksh- The Advanced Journal, Vol. 1 & Issue. 2, Sep 2020.

- **Dr. K. Radhika**, "Detailed Review on Breast Cancer Diagnosis using Different ML Algorithms", 4th International Conference on Data Engineering & Communication Technology (ICDECT-2020), Sep 2020.

- **Ramalakshmi Eliganti**, "Fake News Detection Using Text Analytics", 4th International Conference On Smart Computing And Informatics (Sci-2020), Oct 2020.

- **Dr. D L Sreenivasa Reddy**," Cluster Sampling to Improve Classifier Accuracy for Categorical Data" International Journal of Applied Engineering Research July 19 ISSN 0973-4562 2995-3002

- **Dr D L Sreenivasa Reddy**, B. Nageshwar Rao, G. Bhaskar " Thyroid Diagnosis Using Multilayer Perceptron " Advances in Decision Sciences, Image Processing, Security and Computer Vision July 2020 Online ISBN978-3-030-24322-7 452-459 https://doi.org/10.1007/978-3-030-24322-7_56

- **Dr. D L Sreenivasa Reddy**, Thirupathi Battu "Review on Automatically Identifying Wild Animals In Camera-Trap Images Using Convolutional Neural Network" Journal of Critical Reviews Sep-2020 Issn- 2394-5125 2378-2383

International Conference

- **Dr. B.Veera Jyothi** Presented a paper titled "Security Lock With Intrusion Detection And Facial Recognition Using Iot" At National E-Conference on Trends in computer Engineering and Applications during May 24th 2020

- **Dr. B.Veera Jyothi** Presented a paper titled "Smart Bus Tracking For Visually Impaired People Using

IOT at National E-Conference on Trends in computer Engineering and Applications during May 24th 2020.

- ✎ **Satya kiranmai Tadepalli** presented a paper "Smart Water Consumption Monitoring System using IoT, Android and Cloud Computing" in the 5th International Conference on Communications and Electronics Systems (ICCES 2020) organized by PPG Institute of Technology, Coimbatore, Tamilnadu, India during 10-12 June 2020. (Scopus - IEEE)

- ✎ **Satya kiranmai Tadepalli** presented a paper "Instrument Recognition in Polyphonic music using Convolutional Recurrent Neural Networks" in the 2nd International Conference on Intelligent Computing, Information and Control Systems (ICICCS 2020) organized by Mallareddy College of Engineering, Secunderabad, Hyderabad, India during 25-26 June 2020. (Scopus - Springer)

3. BOOK CHAPTER PUBLICATIONS BY FACULTY

- ✎ **Dr. K. Radhika**, Advances in Decision Sciences, Image Processing, Security and Computer Vision with title "Load Balancing in Cloud Through Multi Objective Optimization", Springer Nature Switzerland AG, Sep 2020

- ✎ **Mr. P. Vasanth Sena**, ICCCE 2020 Proceedings of the 3rd International Conference on Communications and Cyber Physical Engineering with title "Highlights recent advances in voice, data, image and multimedia processing" Springer Nature Singapore Pte Ltd.2021, Oct 2020.

4. ACHIEVEMENTS

✎ Faculty Achievements

- ✎ **Mrs. M. Trupthi**, Assistant professor, received her doctorate titled "A Noval framework for sentiment Analysis based on Ensemble Method" Oct 2020. Her research work was supervised by Prof. Suresh Pabboju.

- ✎ **Mrs. Kratika Sharma** published a patent on "A system and method for disaster management using Flying Ad-Hoc Network", 2020- 102992, IP Australia, Oct 2020.

- ✎ **Mrs. T. Satya Kiranmai, B. Swathi Sowmya, Y. Gnyana Deepa** published a patent on "Iml-Traffic Prediction: Intelligent Traffic Prediction Using Machine Learning", 202041027655, July 2020 (Indian Patent).

✎ Student Achievements

- ✎ **B Sree Keerthi Meghana**-160118737082 has published a paper on "State wise prevalence of COVID19 in India by using machine learning approaches" in International journal of pharmaceutical research 10.31838/ijpr/2020.SP2.295 , ISSN 0975-2366 vol 12 , issue 2.

- ✎ In **CBIT Hacktoberfest Hackathon 2020**, with an objective of resolving the real-world problems in smart way using the available technologies, 48 students have participated.

- ✎ More than 100 students get registered and certified in various courses like Python, Java, Machine

Learning, Deep Learning, Game and Design Development, Web Development, CSS3, HTML5 and many more offered by Coursera, NPTEL, Udemy, HarwardX etc.

5. ALUMNI ACTIVITY

- ✍ Mr. Jagannath S, an alumnus of CBIT 2015-19 Batch pursuing MS in Carnegie Mellon University gave insight on "**Higher Studies**" on 16th November 2020 in online mode.

- ✍ Mr. Avinash Bharadwaj, an alumnus of CBIT 2016-20, gave insight on "**Placement in dream companies**" on 19th November 2020 in online mode.