

Tech Byte

OFFLINE CLASS STARTED JUST FOR A WHILE

Online Class EDITION DECEMBER 2020

HIGHLIGHTS

- Students attended Online NPTEL & Coursera courses.
- Prof Sunitha B S filed a patent titled "IoT bill Dispenser" with patent application number 202141011019.
- 12 International papers were published by the faculty of CSE.
- The MoU was signed by the Dr Likewin Thomas and Dr Manu A P with VGST for procurement of VGST grant of 25,00,000/- Rs.
- All the faculty were supported to attend Faculty Development Program (FDP) on various emerging technologies.
- Dr Likewin Thomas was invited to become the session chair of IEEE conference on "Multimedia Processing, Communications & Information Technology" - MPCIT 2020 hosted by J. N. N. College of Engineering, Shivamogga, Karnataka.
- Dr Likewin Thomas published a Book Chapter titled "Demystifying Big data, machine Learning and deep learning for healthcare analytics". This chapter was published in "Foundation of healthcare informatics" and by Springer.
- Dr Manu A P published a Book titled "A to Z in Linux".
- 25 students got placed in many reputed companies and the department achieved above 95% score in student performance.

Vision

To be a leader in providing education with skilled technical knowledge imbining professional ethics to the students in the field of Computer Science and Engineering

Mission

Imparting quality education to students by ensuring a learning environment through qualified faculty and good infrastructure. Empower students to attain strong technical and ethical skills for a successful career in industry, academics, research and entrepreneurship through active engagement with all the stakeholders.

Vibrant CSE Department

PESITM, SHIVAMOGGA

Computer Science & Engineering department imparts high quality technical education to its students with the help of its state of the art computing facilities and highly qualified teaching and supporting staff. It keeps pace with the latest technological developments and thus helps students stand in good stead in their professional life.

DEPARTMENTAL ACHIEVEMENTS

- Prof Sunitha B S filed a patent titled "IoT bill Dispenser" with patent application number 202141011019.
- 12 International papers were published by the faculty of CSE.
- The MoU was signed by the Dr Likewin Thomas and Dr Manu A P with VGST for procurement of VGST grant of 25,00,000/- Rs.
- Dr Likewin Thomas published a Book Chapter titled "Demystifying Big data, machine Learning and deep learning for healthcare analytics". This chapter was published in "Foundation of healthcare informatics" and by Springer.
- Dr Manu A P published a Book titled "A to Z in Linux".
- 25 students got placed in many reputed companies and the department achieved above 95% score in student performance.

PSOs

PSO1: Interpret the fundamental concepts and methodologies of computer science

PSO2: Apply the mathematical concepts to crack problems using suitable mathematical analysis, data structures and algorithms.

PSO3: Develop ability to grasp the software development lifecycle and methodologies of software systems. Possess competent skills and knowledge of software design process. Familiarity and practical proficiency with a broad area of programming concepts and provide new ideas and innovations towards research.

SAYONARABATCH 2016 - 2020



Farewell Function

SAYONARABATCH 2016 - 2020

Department of Computer Science & Engineering of PES Institute of Technology organized farewell function for the outgoing Batch 2019-20 and was held on Saturday, 5th September 2020. The students of third year and the faculties were involved. The venue for the event was CSE seminar hall. The students of third year had made a contribution to help with the expenses.



HOD Message

I hope that all of you reading this are safe and healthy, as are your loved ones. In the past few months, initial fears of the potential impact of COVID-19 have made way for the stunning realization of how a health crisis can wreak havoc on our culture, our workforces, and our economy. We went from concerns about how severe COVID-19 would be to a precipitous plunge into a new global reality.

To adapt to the crisis, we the Department of CSE @ PESITM, Shivamogga have moved to online mode to work remotely without making our students to get disconnected from the real world scenario and development. Classes were taken through online medium along with many placement oriented activities, industry expert talks and online-hands on workshop on Python & Django Framework.

Prior to Lockdown, our IEEE students have organized a hands-on workshop on Python to BCA students of PESIAMS in early month of February and later in the month of Feb, we hosted an IEEE MSS sponsored National Conference on Engineering Developments.

Wall of Honor

Dr. Manu A P Published his second book titled "A-Z IN LINUX.

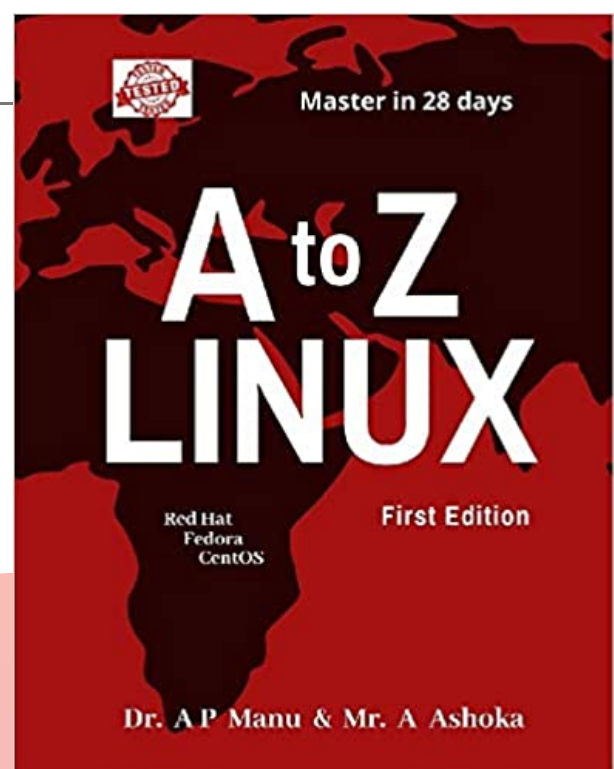
- Publisher : Self (1 January 2020); tmtshimoga@gmail.com
- Language : English
- Paperback : 293 pages
- ISBN-10 : 9353969417
- ISBN-13 : 978-9353969417

ABOUT THE BOOK

The book starts with setting up of own lab using crimping; to verify the functionality, configuring 14+ different well-known servers such as NFS, FTP, NTP, HTTP, DNS, Mail, DHCP, Samba, MySQL. Finally setting OpenStack Cloud and its application. This book also helps in cracking global certification exams like CompTIA N+, RHCSA, RHCE, Red Hat OpenStack, and many more, which is necessary for the System/Network administrator

About the Author

The book titled "ABC of Hadoop, Docker & Ansible" covers all the essential skills needed for a Linux Systems Engineer/Administrator. Comprehensive research made while authoring the book, keeping in mind all the essential skills required for a fresher to get a job in the IT industry and also covers the advanced topics specific to the most in-demand skills like Hadoop, Docker, and Ansible. Besides covering the basics, the authors also delved into the tools DevOps such as Docker, and Ansible, which makes the book very special.



PATENT



BY DR SUNITHA B S

Patent Application Number 202141011019

Application Details	
APPLICATION NUMBER	202141011019
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/03/2021
APPLICANT NAME	1 . Dr. Pramod 2 . Dr. Sunitha B S 3 . Dr. Girisha L 4 . Mr. Vinod V Rampur 5 . Mr. Pramod V Rampur 6 . Mr. Chandra Shekhar J M 7 . Ms. Prathiba R 8 . Mr. Anand Tilagul
TITLE OF INVENTION	IOT BASED PILL DISPENSER
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	pramod741230@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	19/03/2021



Government of Karnataka

VISION GROUP ON SCIENCE AND TECHNOLOGY

Department of Information Technology, Biotechnology and Science and Technology



VGST Funded Project

25 Lakh Rs Under CISEE Scheme

Dr Likewin Thomas and Dr Manu A P Signed MoU with VGST

Facial Attendance System, Emotion Recognition and Interest/ Disinterest Recognition

Artificial intelligence evolved into a powerful tool that enables machines to think and act like humans. It includes Machine Learning and Deep Learning as its sub-fields. Machine learning is the study of computer algorithms that improve automatically through experience and by the use of data, whereas Deep Learning imitates the workings of the human brain in processing data and creating patterns for use in decision making. Cameras are becoming the norm of monitoring all the actives related to security, scientific observations, and entertainment filters. This led to the emergence of Computer Vision.

STUDENTS ATTENDED ONLINE NPTEL & COURSERA COURSES

STATS

Over 75 students cleared NPTEL course on various emerging topics like ML, Algorithms, Python, Reinforcement Learning, Deep Learning, C, Java and many more

Sl No	Name	USN	Course Name
1	Deepa kajjera	4PM17CS028	Introduction to algorithms and analysis
2	Manoj A R	4PM17CS045	The Joy of Computing using Python
3	Rohan M Doddamani	4PM17CS062	Reinforcement Learning
4	Rohan M Doddamani	4PM17CS062	Introduction to Machine Learning
5	Rohan M Doddamani	4PM17CS062	Deep Learning - Part 1(IIT Ropar)
6	Rohan M Doddamani	4PM17CS062	Randomized Algorithms
7	Kruthika H U	4PM19CS041	The Joy of Computing using Python
8	Arpitha K B	4PM19CS015	Problem solving through programming in c
9	Lahari tr prasad	4PM19CS042	Problem solving through programming in c
10	Kruthika H U	4PM19CS041	Programming in Java



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

MANOJ A R

for passing the course

The Joy of Computing using Python

with Score* **97** %



Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Apr 2020
(12 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



PUBLICATION AND FDP

ACHIEVEMENT BY THE FACULTY



10 INTERNATIONAL PAPERS WERE PUBLISHED BY THE FACULTY OF CSE.

1.	Dr.Likewin Thomas	EHR Based Healthcare systems	IEEE National Conference on Engineering Developments, Conducted by Dept. Of CS&E, PESITM, Shivamogga	ISBN:978-81-926416-9-0	IEEE MSS	2020
2.	Mr. Raagvendra K	Application of Swarm Intelligence Algorithm to solve the Vehicle Routing Problem in VANETs	IEEE National Conference on Engineering Developments, Conducted by Dept. Of CS&E, PESITM, Shivamogga	ISBN:978-81-926416-9-0	IEEE MSS	2020
3.	Mr. Sunil M E	Sentiment Analysis in kannada Document	IEEE National Conference on Engineering Developments, Conducted by Dept. Of CS&E, PESITM, Shivamogga	ISBN:978-81-926416-9-0	IEEE MSS	2020
4.	Mr. Sunilkumar H R	Image Encryption System Using 3D Chaotic Maps	IEEE National Conference on Engineering Developments, Conducted by Dept. Of CS&E, PESITM, Shivamogga	ISBN:978-81-926416-9-0	IEEE MSS	2020
5.	Mr. Puneeth B H	Application of Machine Learning in Legal Proceedings	IEEE National Conference on Engineering Developments, Conducted by Dept. Of CS&E, PESITM, Shivamogga	ISBN:978-81-926416-9-0	IEEE MSS	2020
6.	Mr. Ragavendra K	Cloud-Assisted Device and Data Clustering for Lifetime Prolongation in Wireless IoT Networks	IEEE National Conference on Engineering Developments, Conducted by Dept. Of CS&E, PESITM, Shivamogga	ISBN:978-81-926416-9-0	IEEE MSS	2020
7.	Mr. Ranjan V	Sensor Technology for Cattle Health Monitoring System	IEEE National Conference on Engineering Developments, Conducted by Dept. Of CS&E, PESITM, Shivamogga	ISBN:978-81-926416-9-0	IEEE MSS	2020
8.	Mr. Pradeep K	Complete Solution for Security in Home Automation using IOT	IEEE National Conference on Engineering Developments, Conducted by Dept. Of CS&E, PESITM, Shivamogga	ISBN:978-81-926416-9-0	IEEE MSS	2020
9.	Dr.Sunitha B S	Music control using gestures	IEEE National Conference on Engineering Developments, Conducted by Dept. Of CS&E, PESITM, Shivamogga	ISBN:978-81-926416-9-0	IEEE MSS	2020
10.	Dr.Likewin Thomas	Facial Emotion Recognition and Attendance System in Classroom	IEEE National Conference on Engineering Developments, Conducted by Dept. Of CS&E, PESITM, Shivamogga	ISBN:978-81-926416-9-0	IEEE MSS	2020

All the faculty of the department took part in FDP on various emerging trends such as

- "Foundations of Quantum Computing",
- "Recent trends in data science applications"
- "Design and Development of IOT applications"
- "Mobile Application Development using Android OS"

and many others



Department of Computer Science & Engineering PES Institute of Technology & Management

CALL FOR NEWSLETTER

- Articles for future edition are important.
- We would like to invite everybody to submit a short story/article/announcement that can fit in the following structure:
- News items and announcements - (1/2 Page)
- Short, topical, news oriented technical/ non-technical topics. (3/4 Page)
- Paintings, sketches, comics, poems, dag-writings, short stories etc. (1/2 Page)
- Major and minor technical articles are also accepted. (1/2 Page)
- Jokes, Punch dialogues, quotes of your own could be included. (1/4 Page)
- All of above said matters could be accepted In English or in Kannada

EDITORIAL TEAM

Faculty Team: Dr. Chatrappathy K., Dr. Likewin Thomas, Mr. Raghavendra K, Mr. Ranjan V, Mr Devaraj F V.

Student Team: Promod D, Reetesh V, Preetham S V, Rachana H, Neha B V.