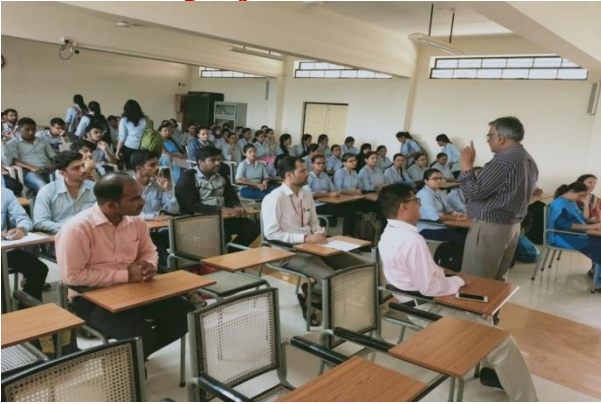




■ Session on project how to?



Session on project how to was conducted for BE computer students. Prof. N. M. Shahane briefed about the use of existing system, contribution by project group, How to clearly identify input and output of system? , importance of project work in computer engineering, stages in development of project like database collection, identifying the relevant algorithms, parameters for performance measure etc. Prof. S. M. Kamalapur briefed about software development life cycle for project. weightage of term work, presentation for Project work and sponsored projects finalization process.

She also briefed about domains like Virtual Reality, Augmented reality, Machine Learning, Internet of Things and Mobile Applications etc. It was interactive session. 101 BE students attended the session with Project guides and faculties of computer department.

■ SE Orientation Program



Orientation program was arranged for SE students on 05th July 2019. Program began with welcome speech by Dr. S. S. Sane. Prof. N. M. Shahane briefed about NBA and Outcome based education. Prof. Dr. S. M. Kamalapur explained Rules and regulations related to academics and plan for autonomy. Prof. S. S. Banait

explained Rules and regulations related to Administrative Instructions. Dr. P. K Shahabadkar described T & P Activity's plan and placement opportunities. Prof. N. G. Sharma demonstrated Registration process for TCS Codevita and Prof R. H. Jadhav demonstrated registration for KPIT sparkle. Prof. A. V. Kolapkar briefed about department Clubs (CSI Student Branch & activities, Debuggers Club activities). Prof. K. B. Birla elaborated about REDX club and white spot.

Expert talk on “Introduction to Data Analysis”



An expert talk on “Introduction to Data Analysis” by Mr.Mahesh Jadhav ,TCS Pune for final year student of computer engineering on 12/7/2019. Total 38 students from BE A and B attended the session.

Session Objective was:

- Basic understanding of Data analysis using statistics and to use computational tools on problems of applied nature.
- Describe Predictive And Prescriptive Analytics Tools
- Identifying Data Governance And Trust
- Speaker talked about basic concept of Data analysis using statistics Predictive And Prescriptive Analytics Tools, Identifying Data Governance And Trust

The Session was coordinated by Prof. D. M. Kanade, Prof. M. P. Mahajan, Prof. G. R. Gupta under the guidance of Head of department Prof. Dr. S. S. Sane.



■ One Day Faculty Development Program On “Programming & Problem Solving”

Department of Computer Engineering, K. K. Wagh Institute of Engineering Education and Research, Nashik has successfully conducted one day state level Faculty Development Program (FDP) on “Programming and Problem Solving” on 17th July 2019.



Around 50 Participants from various institutes attended the FDP and expressed their happiness for conducting such events. Eminent speakers from academics and industries like Prof. Dr. Varsha H. Patil (Chairperson, Board of Study Computer Engineering, Savitribai Phule Pune University, Pune), Dr. R. Venkateswaran (Senior Vice-President, IOT Solutions, Persistence Systems, Pune) and Dr. Ramchandra S. Tiwari (Technical Director, Cognifront, Nashik.) guided the participants.

Objectives of FDP

1. To get familiar with the Programming and Problem Solving introduced at First Year Bachelor of Engineering 2019 course.
2. To have hands on of lab assignments.

■ Expert Talk on Functional AI and Design Thinking



An Expert Talk on Functional AI and Design Thinking by Mr. Parimal Modi for the Final Year Computer Engineering students was organized on 9th of August 2019 by Dr. S. S. Sane, Prof. N. G. Sharma & Prof. R. H. Jadhav. The session was conducted in the Panini Hall.

Mr. Modi guided students on the following topics:

1. Empathy Vs Sympathy
2. Four Design Thinking Questions (what is, what if, what wows and what works?)
3. Real life examples solved using design thinking
4. Design Thinking Model
5. AI project How to?

Overview about start-ups

■ seminar on topic “Artificial Intelligence”



Mr. Kushal P. Birla was invited to deliver a seminar on topic “Artificial Intelligence” by Nashik Shikshan Prasarak Mandal for teachers in Nashik on 24th August, 2019. Seminar covered following points: (1) What is artificial intelligence? (2) Why do we need A.I? (3)What are challenges and opportunities for teachers and students? (4)What are the tools available for students and teachers related to A.I.?



■ Teacher's day celebration



The Debugger's club of Computer Department organized the teacher's day celebration on 7th September 2019. The event started with warm welcome to all the teachers. Then there was a tribute paid to Sir Sarwapalli Radhakrishnan on the occasion of Teacher's Day. This was followed by valuable thoughts, given by the speech of Dr. S. S. Sane.

■ Engineer's Day celebration by Debuggers Club



Engineer's Day was organized by third year students of Computer Engineering students to pay tribute to Sir M. Visvesvaraya and for the investiture ceremony of the new committee members of Debuggers' Club and CSI Students' Chapter on 18th September 2019. The departmental toppers for each year and special achievers were felicitated at the event. Chief guest for this celebration was Mr. Shashwat Johari. Winners of CSI quiz competition and Debugger's Extempore were felicitated by chief guest.

■ An expert talk on the topic "Current Trends in Cloud Based platform"



An expert talk on the topic "Current Trends in Cloud Based platform" was conducted on 30th September 2019, 02:30 pm to 04:30 pm for third year and final year of computer engineering students, K. K. Wagh Institute of Engineering and Education Research, Nashik. The motive of the event was to significantly ramping up student's skills and knowledge about cloud based CRM tool salesforce and learns to solve the most pressing business needs.

■ Poster presentation competition for Second Year audit course smart cities



Poster Presentation competition was conducted on 12th October 2019 for Second Year students on Smart Cities audit course. Santosh Mundhe, Founder of Cybsky Cyber Ambassador Solution Pvt. Ltd. judged the competition. Total 20 groups participated in the same. Students presented their poster to staff members and visitors.



Seminars/Workshop/Training attended by staff:

- Prof. N. G. Sharma attended FDP on Data Science from 24th June to 29th June 2019.
- Prof. R. H. Jadhav attended FDP on Machine Learning and Deep Learning from 17th June to 22nd June 2019.
- Prof. S. M. Malao attended STTP on National Board of Accreditation from 17th June to 21st June 2019.
- Prof. P. P. Vaidya attended STTP on National Board of Accreditation from 17th June to 21st June 2019.
- Prof. S. K. Gondhalekar attended ACM India Workshop on Assessment on 28th June 2019.
- Prof. K. P. Birla, Prof. N. S. Sonawane, Prof. S. A. Gade, Prof. M. N. Shinde, Prof. P. D. Rakibe attended One day FDP on “Programming & Problem Solving” on 17th July 2019.
- Prof. P. P. Vaidya visited ESDS , Nashik on 19th and 20th September 2019.
- Prof. K. P. Birla attended FDP on Cyber Security at KBTCoE , Nashik on 23rd to 28th September 2019.
- Dr. S. M. Kamalapur and S. K. Gondhalekar attended FDP on data science at KBTCoE , Nashik 4th to 9th November 2019.
- Prof. P. D. Rakibe attended FDP on cyber security at SNJB, Chandwad on 25th to 30th November 2019
- Prof. S. T. Patil attended FDP on data science at JIT, Nashik on 25th to 30th November 2019.
- Prof. N. G. Sharma received NPTEL certification on Python for Data Science with Elite Silver.

Papers Presented by Staff and Student

Title of Paper : Building an Effective Intrusion Detection System using combined Signature and Anomaly Detection Techniques

Author: Prakash N Kalavadekar, Shirish S. Sane

Organizer: International Journal of Innovative Technology and Exploring Engineering (IJITEE)
ISSN: 2278-3075, Volume-8 Issue-10, August 2019

Abstract: Intrusion Detection Systems (IDS) are providing better solution to the current issues and thus became an important element of any security infrastructure to detect various threats so as to prevent widespread harm. The basic aim of IDS is to detect attacks and their nature and prevent damage to the computer systems. Several different approaches for intrusion detection have been reported in the literature. These approaches are broadly categorized into three approaches: I) Signature-based approach II) Anomaly based approach and III) Hybrid approach that combines signature and anomaly detection approaches. Hybrid approach has been found to be superior to either signature based or anomaly based approaches. Several different algorithms are available for hybrid approach. This paper suggests the combined approach using signature and anomaly detection techniques. The signature based is build using genetic algorithm as filter based feature selection and J48 as classifier and data mining approach is used to build anomaly based IDS. The performance of combined IDS is evaluated on well known datasets such as KDD Cup 99, UGR 16 and Kyoto 2006+ etc. The experimental results presented here are encouraging and show superiority of combined IDS to detect network anomalies with respect to time required building the model, detection rate, accuracy and false positive rate. Index Terms: Anomaly, Data Mining, Intrusion Detection, Anomaly, Signature.

Faculty Coordinator: M. P. Mahajan

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