IT TRUMPET

Newsletter
Department of Information Technology
Government Polytechnic for Girls,Ahmedabad

June 2019: Volume-2 (December 2018 to May 2019)

Our Vision

To be a centre of excellence for girls in Information Technology by preparing them to be efficient problem solvers, innovators and entrepreneurs in the era of dynamic IT field as well as to empower women by providing roadmaps that foster professionalism, humanism and social responsibility.

Our Mission

- **To provide excellent field related technical knowledge and skills.**
- **To foster interpersonal and leadership skills through co-curricular and extracurricular activities and thus develop a thirst for lifelong learning among students.**
- **To create a vibrant and an intellectually stimulating environment for students to empower them for real world problem solving.**

Message from HOD

Dear Readers,

First, I hope and pray that you may lead a great success in your personal as well as professional life respectively. I am pleased to present the second volume of our newsletter for the academic year 2018-19. During this report period, the department was active with overall various curricular and co-curricular activities. All the faculties of our department are determined for the overall development of our cherished students.

The IT department will remain focused on providing its excellent teaching & support to our academic community.

Ms. Priti N. Parikh

DEPARTMENT ACTIVTIES

Sr. No	Activities	Date
1	Adv.JAVA	10-01-2019
2	Science City Visit	19-01-2019
3	Android & SQL Lite	18-02-2019
4	SQL & Project	19-02-2019
5	Seminar On Latest Trends In Web Designing	27-03-2019
6	Project fair "Techno Sarita-2019"	16-04-2019

Project Fair Techno SARITA 2019

Government Polytechnic for Girls, Ahmedabad had organized Open House-Project Exhibition "Techno Sarita 2019" for the final year students of IT,CE and EC branch on 16th April, 2019. Students of 6th semester from all three branches show cased their projects. Some innovative projects like Object Avoiding Robot, Voice Operated Lock, Fire Detecting Robot, Auto Irrigation System, Ultrasonic Based Water Level Controller, Smart Parking App, NGO app, Customer Relationship Management System, Voice Assistance, Euphoria Health Care grabbed attention of the audience. The objective of this event was to demonstrate the ideas of students in terms of application and to motivate lower semester students for such innovation.

Activity for development of technical skills

During vacation duration department signed MOU with HOPE foundation for enhanced technical knowledge and skills of students. Additional classes are successfully completed.

Our Top Rankers in Institute and University (winter 18)

Sr. No	Enrolment No	Name	Semester	Rank
1	176140316094	Rawat Muskan Pramod	3	5th rank in GTU top 10
2	176140316088	Rakholiya Armikaben Dineshbhai	3	7th rank in institute top 10
3	176140316122	VATSRAJ AAKRUTI HIREN	3	9th rank in institute top 10
4	176140316068	Patel Drashti Vipulbhai	3	10th rank in institute top 10
5	166140316108	Sharma Bhumi Bhupendra	5	1st rank in institute top 10
6	166140316065	Patel Apexa Mahendrakumar	5	5th rank in institute top 10
7	166140316103	Shah Devanshi Amitkumar	5	8th rank in institute top 10
8	166140316113	Thakkar Krupa Atmaram	5	9th rank in institute top 10
9	166140316027	Gangwar Banshita Vinod	5	10th rank in institute top 10

Positive Talk

કોમ્પ્યુટર પ્રોગ્રામિંગમાં એક શબ્દ: **GIGO (Garbage in Garbage Out)** પ્રચલિત છે.પ્રોગ્રામિંગ ઇનપુટ નેગેટિવ કમાન્ડઝથી થશે તો બેશક તેનું આઉટપુટ પણ એવું જ નેગેટિવ મળશે.

તો હવે એક સાવ નાનકડું, અદ્રશ્ય વાઇરસ આખી દુનિયા પર કબ્જો જમાવી શકે છે, તો જસ્ટ વિચારી શકીયે કે માત્ર એક વ્યક્તિનો નાનકડો વિચાર શું શું કરી શકે છે?

ઇનોવેટિવ આઇડિયા ઇકોનોમીમાં જીવી રહેલાં આપણે સૌ સજીવોને કેટલાંક દિવસોથી આઇડિઅલથી 'આઇડલ ઇકોનોમી'માં જીવવાનો વારો આવ્યો છે. સિમ્પલી! આપણાં ગ્લોબલ ડર અને વિચારોએ પરિસ્થિતિ વધારે ખરાબ સર્જી છે. વાઇરસની રસી આપણા મનમાં જ છે અને તેમાં જ અકસીર ઉપાય છે. એ હું હવે દ્રઢપણે માનું છું.

એટલે જ ઝીંદગીના પ્રોગ્રામિંગ માટે મને તો GIGO (Great in Great Out) બહેતર લાગે છે.

From Facebook by Murtuza Patel

Technical Corner

5 technology books that every programmer should read

The biggest challenge that developers face is that of constantly updating their skills with the changing technology. Developers need to commit to this continuous learning and development process which will ensure they stay relevant to the demanding jobs of today. Books on technology are one of the most effective ways in which someone can stay on top of the updates. Here are top technology books that you must consider:

1. Hands-on deep learning with PyTorch

Deep Learning is one of the fastest growing trends in the tech industry. Google's open source machine learning framework TensorFlow and Facebook's PyTorch are two major frameworks used for Deep Learning. This book shows a simplistic way to learn advanced features of PyTorch. The book is designed for developers with some level of Python experience. The book includes chapters on reinforcement learning and how to put PyTorch application into production.

2. Hands-on DevOps for Architects

This book focuses on teaching about establishing DevOps best practices to enable enterprise architecture for systems like Financial Services, big data, e-commerce, Hadoop, Spark, Scala, ETL, and Data Visualization. With the help of this book, you can learn about how to lead DevOps transformation through effective enterprise architecture. The book includes chapters on implementation of continuous delivery pipeline, infrastructure as Code (IaC), configuration management, and Site Reliability Engineering (SRE).

3. Hands-on Full Stack development with Go

Google's Go programming language is becoming increasingly popular among developers. The adoption of Go programming language is on rise for quite some time. This book starts with the fundamentals of Go programming. You can learn how to build the front-end with tools like ReactNative with this book. The book includes advanced topics like how to build Web Restful APIs using the Gin framework. By the end of the book, you will feel confident to work on any web development project.

4. Data Wrangling with Python

This is the most recommended book to learn the best practices of high-quality data science. The book teaches essential basics of the data science pipeline called data wrangling. By reading this book, you will learn to manipulate complex and simple data structure programs using Python and its built-in functions. You will learn how to use the fundamental and advanced level of Panda DataFrames and numpy.array. The includes exercises to help you with practice data wrangling and modelling techniques using random data generation.

5. C++ Fundamentals

The language C++ has come a long way and is widely used among developers. The book helps in building software infrastructure and resource-constrained applications. This book can help you learn how to use C++ compilation model and syntaxes, applying best practices for writing functions and classes, write safe, generic, and efficient code with templates. You can abstract complex problems using Object Oriented Programming in C++ with this book.

Article by Thakkar Krupa (6ᵗʰ Sem)