Bansilal Ramnath Agarwal Charitable Trust's
Vishwakarma Institute of Technology
(An Autonomous Institute affiliated to Savitribai Phule Pune University)

DEPARTMENT OF INFORMATION TECHNOLOGY

# ITVishwa

Volume –2 / Year:2019-2020, Issue– 2

## Institute Vision

"To be globally acclaimed Institute in Technical Education and Research for holistic Socio-economic development".

## Institute Mission

- To ensure that 100% students are employable and employed in Industry, Higher Studies, become Entrepreneurs, Civil / Defense Services / Govt. Jobs and other areas like Sports and Theatre.
- To strengthen Academic Practices in terms of Curriculum, Pedagogy, Assessment and Faculty Competence.
- Promote Research Culture among Students and Faculty through Projects and Consultancy.
- To make students Socially Responsible Citizen.

## Message from HoD's Desk

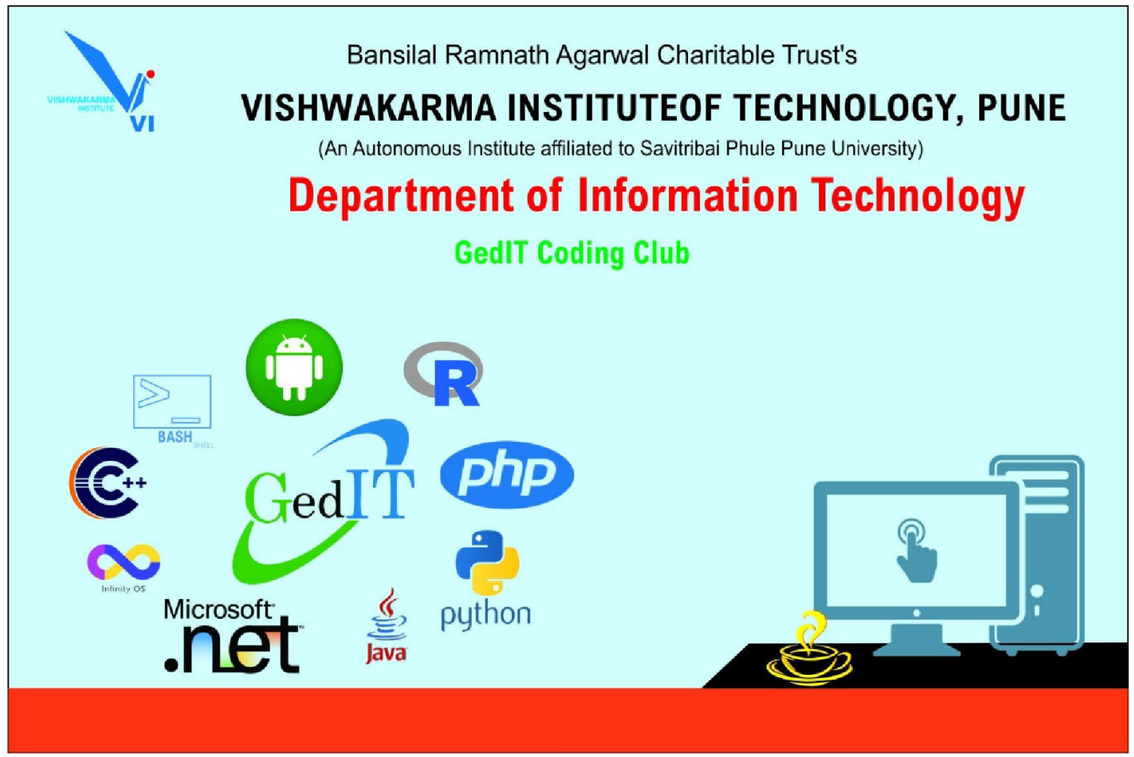
*"We are confident enough that our Engineers will emerge as assets not only to this institution and to the organization, but also to the country at an extent. Along with academic knowledge we also train our Engineers to face the challenges in life by providing many value added courses to enhance their career prospects. The excellent infrastructure, teaching faculty of the best kind ensuring quality education such as interaction among students, parents and staff, along with Training & Placement Cell ensuring a bright future to our students."*

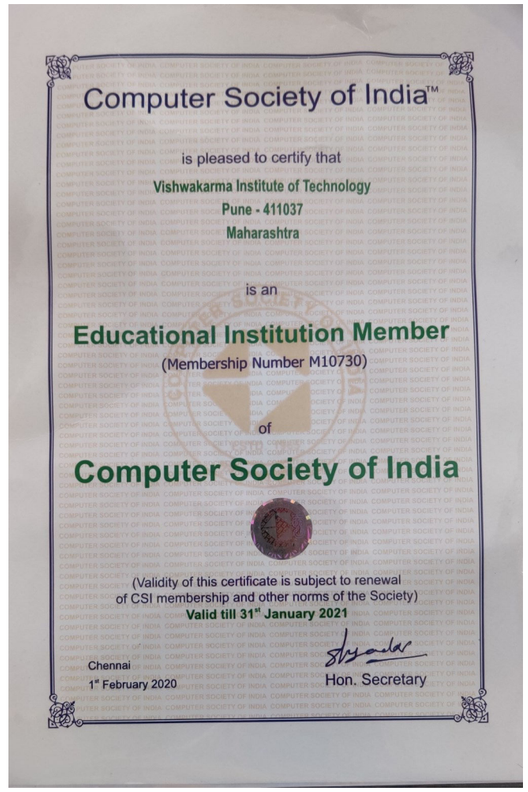
## Department Vision

"To provide student-centered state-of-the-art academically enriched environment for productive careers in the world of computing through creativity and innovation"

## Department Mission

- To promote aspiring ethically conscious engineers demonstrating sustainable employability and entrepreneurship.
- To impart quality education with the focus on analytical and problem-solving skill development.
- To foster inspired scholarly environment through active student-faculty participation in research and development resulting in new knowledge-base or insights.
- To prepare students to shoulder social responsibilities by application of their skill set for betterment of society.




GedIT Programmer’s Club has 5 different committes :**Java, C++, Python, PHP and Android** Each Committee has two Programming Heads/Trainers who will train you and develop your logical reasoning and understanding in that respective Programming Language

Computer Society of India (CSI) conducts various Technical Expert sessions, workshops, webinars for students development.
**Total Number of Chapter Members: 85**

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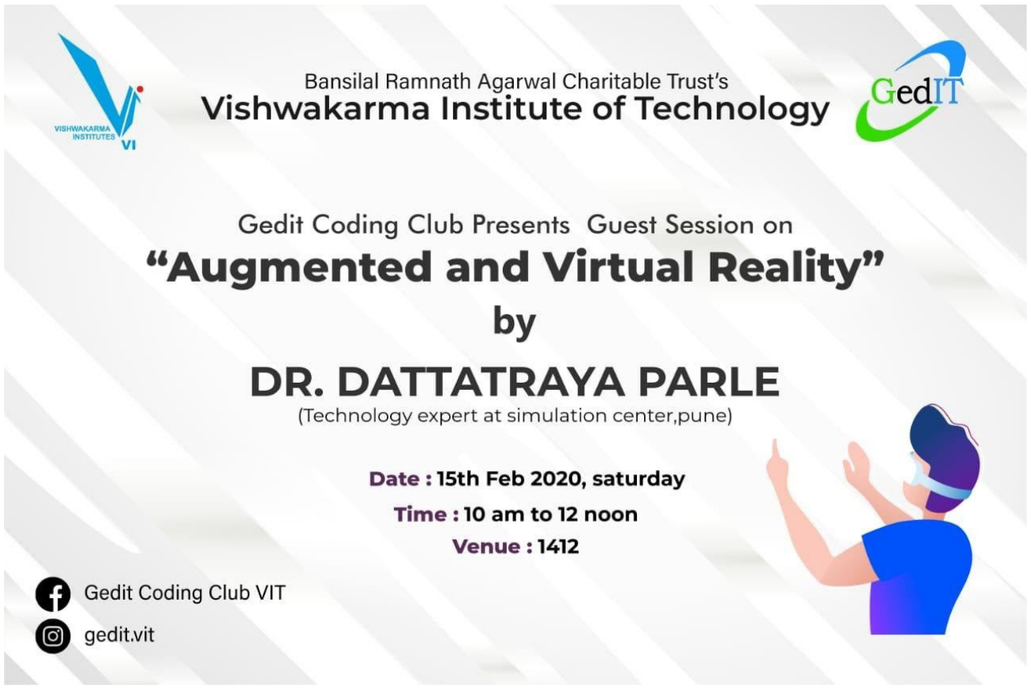



**Resource Person:**
Dr Dattatraya Parle,
Founder of Simulation Center, Pune
Date: 15/02/2020

**Staff coordinators:**

Prof. Dr.P.P. Ghadekar,

Mrs. A. R. Sawant

**Session Outcome:**

- overview of the spectrum of the emerging tech of AR/VR
- it's myriad of possibilities in the field of consumer electronics and research domain
- live demo of his cost-effective solutions to different VR devices
- new project ideas, solution finding a perspective

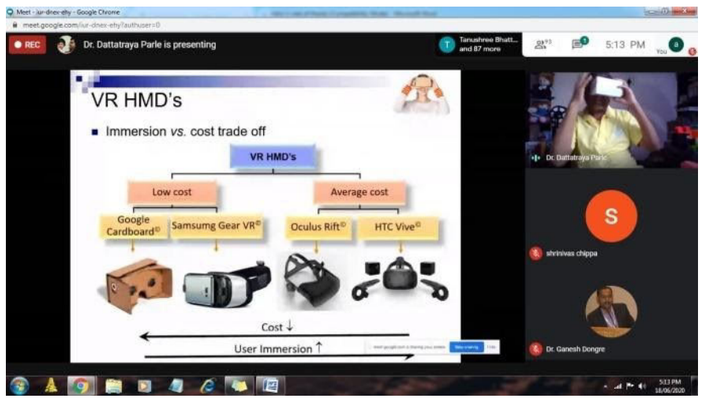
# "VR, AR and MR in Education and Training"

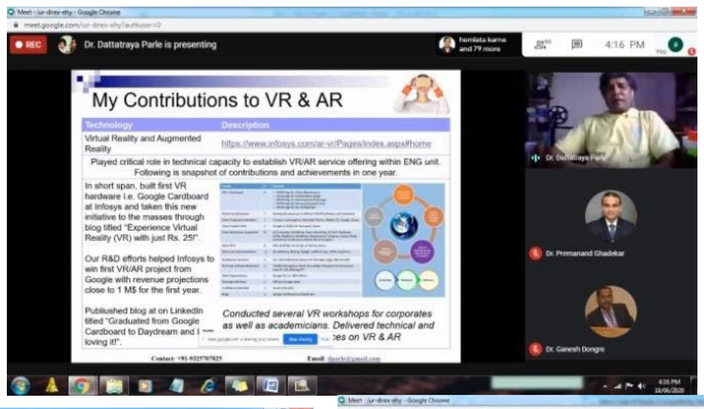
**Resource Person:**

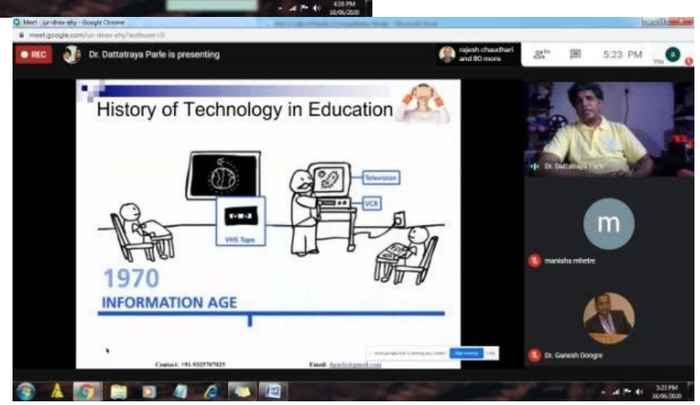
**Dr. Dattatray Parle**

(Technology Expert at Simulation Centre, Pune.
Won Best Innovative Product Award at Maha Advantage Expo – 2020 at Aurangabad for Tricolor VR Headset Design)

**Coordinator: Prof. A. R. Sawant**





## "Introduction to GPU computing using CUDA"

**Resource Person:**

Prof. Dr P S Dhabe, VIT, Pune

**Topic: Introduction to GPU computing using CUDA**

Date: 15/06/2020

## "Re-imagining Product Management"

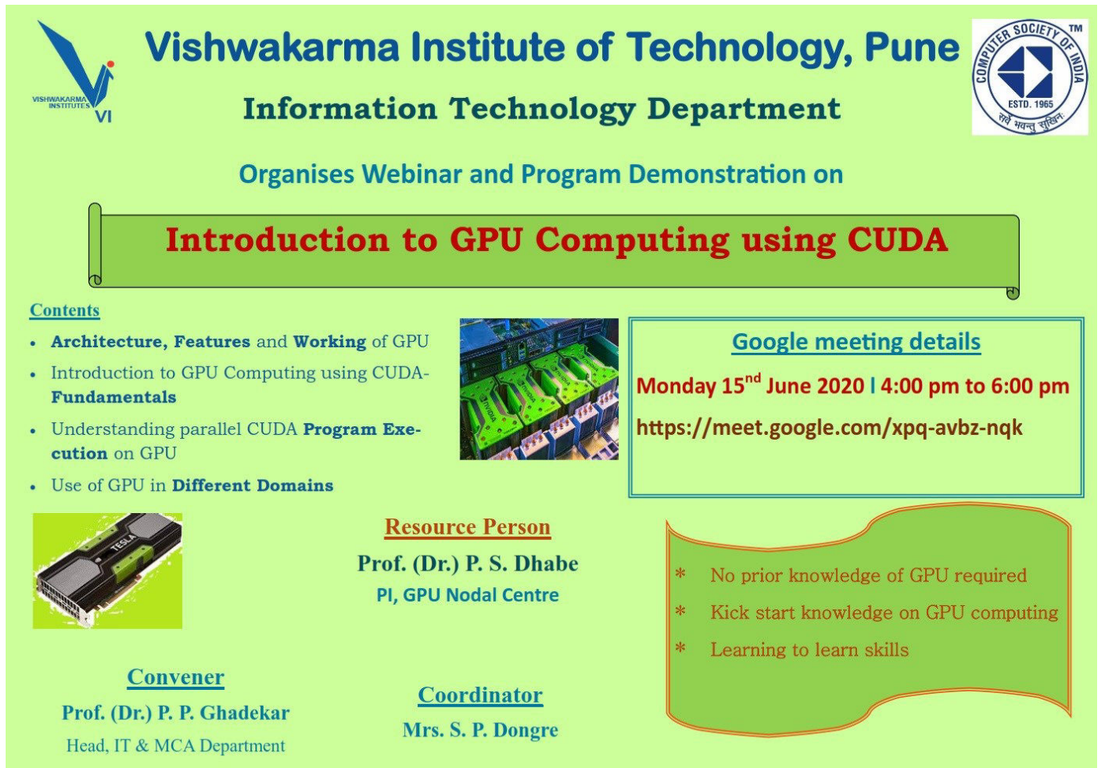
**Resource Person:**

**Mr. Mohammad Sarosh,**

**Senior Program Manager, Microsoft**

**Topic: Re-imagining Product Management**

Date: 21/06/2020



# "DEVELOPER STUDENTS CLUB"

# "SELF DEVELOPMENT PROGRAM"

| Sr. No | Date | Speaker | Topic | Venue |
|---|---|---|---|---|
| 1 | 24/05/ 2020 | Anup Thorat, 9ine Consultants Database Architect Swapnil Takalkar, Wolters Kluwer .Net Developer | Post COVID Career Planning | Online |
| 2 | 24/05/2020 | Manesh Nambiar , IBM | Post COVID preparations for Placements and Internship | Online |
| 3 | 18/01/2020 | Varun Shah, Varian Medical Sys-tems as Software Engineer, | Job Opportunities after MS | VIT, Pune |

# "STUDENTS ACHIEVEMENTS"

**Hackathon 'Game of Codes'**
**Runner up Teams**

**Organized by Syngenta Service Pvt. Limited,**

**Date: 5th February 2020**

**Team - Voice recognition track**

1. Sagar Wankhede – TY – IT
2. Prateek Fotedar – TY – IT
3. Vedant Patil – TY – IT

# IN CAMPUS HACKATHON 2020 VIT PUNE RESULT

## TOP FIVE TEAMS - SOFTWARE

| Rank | Team Members | Team Name | Problem Statement |
|---|---|---|---|
| 1 | Vinay Sirsal , Siddhant Bobde , Prathmesh Choudhari , Vedangi Deshpande , Vinay Sirsal, Utkarsh shendge | DETECTORS | STAR TRACKING DEVICE |
| 2 | Sushmita Kaneri,Purva Nartam , Niket Doke , Abhijeet Raut , Varsha Jha , Chinmay Patil | #No_Name? | CYBERCRIME PREVENTION |
| 3 | Ganesh Tarone , Tanishka Gupta , Aniket Ghorpade , Krish Agarwal , Tarun Medtiya , Mihir Tale | VoyagAR | Virtual Tourist Guide |
| 4 | Ganesh Devare , Vipul Doshi , Archit Hadge , Jyoti Deshmane , Srushti Dalvi , Yash Halgaonkar | Just_Another_Team | Geo Tracking of Waste and Triggering Alerts and Mapping Areas with High Waste Index |
| 5 | Zaid Naikwadi , Rohan Deshmukh , Kanchan Chaudhari , Kamlesh Silag , Kunal Rasam , Shreya Karmakar | Big Oh of One | Interactive map application for real time crime reporting |

# "PAPER PUBLICATIONS"

| Sr.No. | Title | Authors Name | Name of Journal/Conference | Date |
|---|---|---|---|---|
| 1 | Predicting optimal cricket team using data analysis | Ranjana Jadhav, Bhargav Pawar | 2021 International Conference on Emerging Smart Computing and Informatics, ESCI 2021, 2021, (IEEE) | March 2021 |
| 2 | Real-Time Object Detection for Visually Challenged | Ranjana Jadhav, Divsehej, Adarsh,Dheeraj Sharma | Advances in Intelligent Systems and Computing, 2021, (Springer) | April 2021 |
| 3 | WEB-BASED REAL-TIME GESTURE RECOGINITION WITH VOICE | Dr P P Ghadekar , S. Abhishek, Tejas Kachare, Om Deshpande, Rushikesh Chounde, Prachi Tapadiya | Springer Communications in Computer and Information Science book series (CCIS) | 2021 |
| 4 | Data Set Reduction to Improve Computing Efficiency and Energy Consumption in Healthcare Domain | Dr. P. S. Dhabe , Param Mirani, Rahul Chugwani | Springers Digital Literacy and Socio-Cultural Acceptance of ICT in Developing Countries | June 2021 |
| 5 | A New Data Structure for Representation of Relational Databases for Application in the Normalization Process | Prof. Ranjana Jadhav, Dr. P S. Dhabe, Param Mirani, Rahul Chugwani | Machine Learning and Information Processing | March 2021 |
| 6 | Effective UI Design to Explore Poetry Literature Using Multiple Scripts for Ordinary End Users | M.L.Dhore , Ranjana Jadhav | Proceeding of First Doctoral Symposium on Natural Computing Research: DSNCR 2020 | January 2021 |
| 7 | Transliteration of Residential Addresses Having Hindi, Urdu and English | M.L.Dhore , Ranjana Jadhav | Proceeding of First Doctoral Symposium on Natural Computing Research: DSNCR 2020 | March 2021 |

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DEPARTMENT OF INFORMATION TECHNOLOGY

Two days state level SPPU sponsored Faculty Development Program on

# "Data Science in Health Analytics for Swasth Bharat"

**Convener:- Prof. (Dr.) P. P. Ghadekar**

**Coordinators:- Prof. Deepali Joshi**

**Date: 17/01/2020 and 18/01/2020**

**Invited Speakers: -**

1. **Dr. Aditya Abhyankar**
2. **Dr. Girish Palshikar**
3. **Dr. Prakash Shelokar**
4. **Dr. Parikshit Mahalle**
5. **Dr. Bhushan Garware**
6. **Mrs. Manisha Mantri**

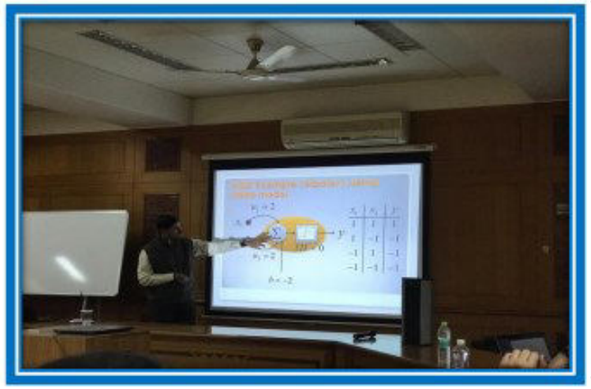
| Sr. No. | Speaker | Topic |
|---|---|---|
| 1 | Dr. Aditya Abhyankar | Building 3D models in Biomedical Engineering |
| 2 | Dr. Prakash Shelokar | Data Science in Healthcare informatics |
| 3 | Mrs. Manisha Mantri | Data Analytics in Healthcare: Challenges and concerns |
| 4 | Dr. Girish Palshikar | Information and Knowledge Extraction from Biomedical Documents |
| 5 | Dr. Parikshit Mahalle | Data Analytics and Access control framework for Medical IOT |
| 6 | Dr.Bhushan Garware | Challenges of deploying AI tool in medical domain: trends and research opportunities |

# "WORKSHOPS/SEMINARS ORGANIZED"

Two days state level SPPU sponsored Faculty Development Program on

## "Data Science in Health Analytics for Swasth Bharat"

ITVishwa



# "WORKSHOPS/SEMINARS ORGANIZED"

Two days state level SPPU sponsored Faculty Development Program on

## "Data Science in Health Analytics for Swasth Bharat"

HEXANIKA™

HEXANIKA

**Recommendation for "Practical Big Data Analytics" course**

The semester-long weekend course on "Practical Big Data Analytics" offered by Vishwakarma Learning Labs, Vishwakarma Institute of Technology, Pune is a good choice for those who want to aspire career in the data analytics field. As the field is growing rapidly, there is a huge demand of workforce with these skillsets.

This course has a curriculum as per the current industry demands. Data analytics field being interdisciplinary in nature, the course covers core subjects like statistical analysis using R, big data analysis using Hadoop technologies, machine learning using R / Python. These subjects would be taught by industry experts and experienced academicians. Focus of the course is on conceptual understanding as well as hands on for acquiring insights into the real world case studies. Good performing students also get an opportunity for an internship/ placement with HEXANIKA Solutions Pvt. Ltd. or other relevant companies. Completing this course would definitely be a good beginning of the journey towards becoming a data scientist.

For HEXANIKA Solutions Pvt Ltd

Swapnil Ramesh Deolay
HR & Admin Manager

Hexanika Solutions Pvt. Ltd.

बन्सीलाल रामनाथ अगरवाल चॅरिटेबल ट्रस्ट संचलित
विश्वकर्मा इन्स्टिट्यूट ऑफ टेक्नॉलॉजी
(पुणे विद्यापीठाशी संलग्न स्वायत्त संस्था)
६६६, अप्पर इंदिरानगर, बिबवेवाडी, पुणे - ४११ ०३७.
Approved by A. I. C. T. E. New Delhi

Bansilal Ramnath Agarwal Charitable Trust's
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(An Autonomous Institute Affiliated to University of Pune)
666, Upper Indiranagar, Bibwewadi, Pune - 411 037.
Identification No. - PU/PN/Engg./061/(1984)

VI/VLL/72/169

**Memorandum of Understanding**

This Memorandum of understanding (MOU) (for training on Practical Big Data Analytics), executed on, May 7, 2018 is a formal agreement between Vishwakarma Institute of Technology (www.vit.edu) (VIT), 666, Upper Indiranagar, Bibwewadi, Pune, Maharashtra 411037.
(Hereinafter referred as 'VIT')
AND
HEXANIKA Solutions Pvt. Ltd, (www.hexanika.com) Krupa, 1187/10, Shivaji Nagar, Pune 411005.
(Hereinafter referred to as 'HEXANIKA')

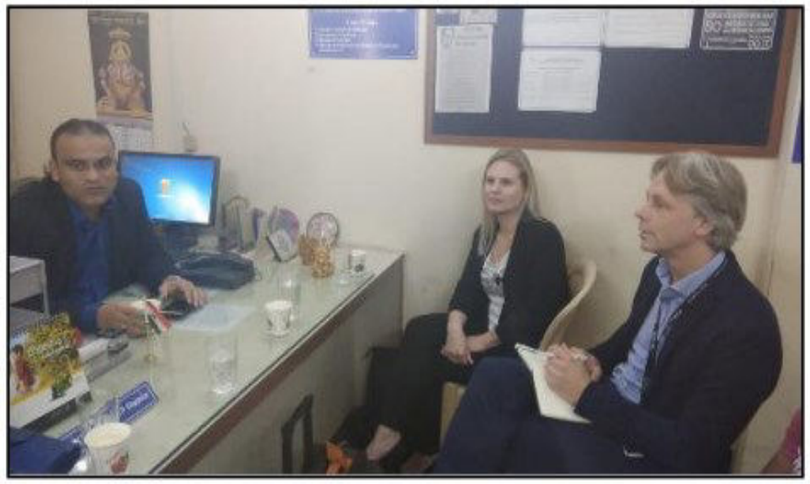
(VIT and HEXANIKA are collectively referred to as 'Parties' and individually as 'Party')

Brief regarding training course on Practical Big Data Analytics:

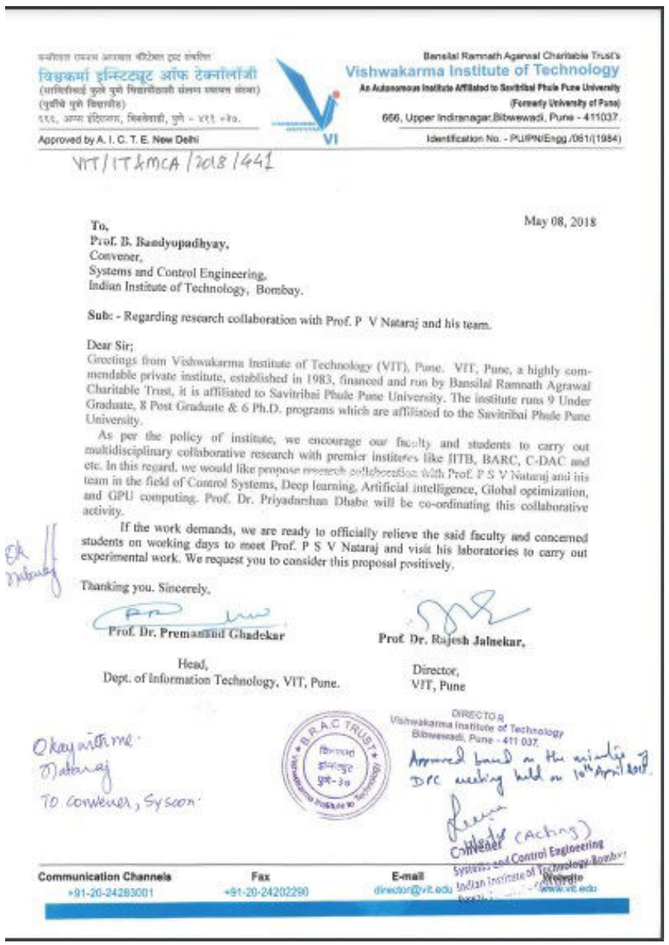
The objective of this course is to help students / professionals to undertake the course on Practical Big Data Analytics which are primarily designed to cater to the needs of Industry in terms of skilled manpower having technical expertise in the IT sector. This course is aimed to develop and improve the technical knowhow and skills of all interested and participating students / professionals.

# Xoriant

# TomTom



## Research Collaboration with Prof. P V Nataraj and his team from IIT Bombay



बन्सीलाल रामनाथ अग्रवाल चॅरिटेबल ट्रस्ट संचलित
विश्वकर्मा इन्स्टिट्यूट ऑफ टेक्नोलॉजी
(शासनिर्णय कुले पुणे विद्यापीठाशी संलग्न स्वायत्त संस्था)
(पुर्वीचे पुणे विद्यापीठ)
६६६, अप्पर इंदिरानगर, बिबवेवाडी, पुणे - ४११ ०३७.
Approved by A. I. C. T. E. New Delhi

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Identification No. - PUI/PN/Engg./061/(1984)

VIT/ITA&CA/2018/441

May 08, 2018

To,
Prof. B. Bandyopadhyay,
Convener,
Systems and Control Engineering,
Indian Institute of Technology, Bombay.

Sub: - Regarding research collaboration with Prof. P V Nataraj and his team.

Dear Sir;

Greetings from Vishwakarma Institute of Technology (VIT), Pune. VIT, Pune, a highly commendable private institute, established in 1983, financed and run by Bansilal Ramnath Agrawal Charitable Trust, it is affiliated to Savitribai Phule Pune University. The institute runs 9 Under Graduate, 8 Post Graduate & 6 Ph.D. programs which are affiliated to the Savitribai Phule Pune University.

As per the policy of institute, we encourage our faculty and students to carry out multidisciplinary collaborative research with premier institutes like IITB, BARC, C-DAC and etc. In this regard, we would like propose research collaboration with Prof. P S V Nataraj and his team in the field of Control Systems, Deep learning, Artificial intelligence, Global optimization, and GPU computing. Prof. Dr. Priyadarshan Dhabe will be co-ordinating this collaborative activity.

If the work demands, we are ready to officially relieve the said faculty and concerned students on working days to meet Prof. P S V Nataraj and visit his laboratories to carry out experimental work. We request you to consider this proposal positively.

Thanking you. Sincerely,

Prof. Dr. Premanand Ghadekar
Head,
Dept. of Information Technology, VIT, Pune.

Prof. Dr. Rajesh Jalnekar,
Director,
VIT, Pune

DIRECTOR
Vishwakarma Institute of Technology
Bibwewadi, Pune - 411 037.

Okay with me.
Nataraj
To convener, Sysoon.

Approved based on the minutes of DRC meeting held on 10th April 2018.

Convener (acting)
Systems and Control Engineering
Indian Institute of Technology Bombay

Communication Channels: +91-20-24283001
Fax: +91-20-24202290
E-mail: director@vit.edu
Website: www.vit.edu

## OPEX AI Pvt. Ltd. Hyderabad

# "MOU WITH INDUSTRIES"

JOHN DEERE

Bansilal Ramnath Agarwal Charitable Trust's
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(An Autonomous Institute affiliated to Savitribai Phule Pune University)
DEPARTMENT OF INFORMATION TECHNOLOGY

## Department has awarded as GPU research Center by NVIDIA and "GPU Nodal Center" by GPU Center of excellence, IIT Bombay

**Team Leader : Prof P S Dhabe**
**Team – S P Dongre, U B Kodgule**

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# Industry Visit to Persistent
## Date: 07/02/2020

Coordinator:- Prof. D R Deshpande

Participants: TY-Information Technology

Visit Details:

1. To know about work in culture in the Persistent
2. To understand the gap between student knowledge and company need
3. To get information about career and abroad opportunities.

# "STUDENTS INTERNSHIP"

| Sr.No. | Candidate Name | Company Name | Stipend (Rs) |
|---|---|---|---|
| 1 | SNEHA SHINDE | CueMath | 15000 |
| 2 | ADARSH UNDRE | Quinstreet | 25000 |
| 3 | ARUNDHATI SHINDE | Digital Impact sqaure | 15000 |
| 4 | YOGINI KOKATE | Eaton | 10000 |
| 5 | PRIYANKA MUTYAL | veritas | 25000 |
| 6 | SUSHMITA KANERI | Mahratta Chamber of Commerce,Industries and Agriculture | 15000 |
| 7 | BOLLA VINIT VIRENDRA | Infosys | 10000 |
| 8 | DAMALE AISHWARYA ASHOK | Application Square | 5000 |
| 9 | DEEPIKA M CHOUDHARY | Expert Systems | 6000 |
| 10 | DHOTRE RAHUL DILIP | Qualys | 15000 |
| 11 | DIPTEJ SUNIL ZOPE | Fortune Tech | 7500 |
| 12 | GOSAVI PRASHANT RAMPAL | perscitus | 5000 |
| 13 | HAMILPURE SURESH SHIVAJI | entytle | 22000 |
| 14 | HARKANTH NIKHIL ISHWARLAL | Infosys | 10000 |
| 15 | JADHAV SANTOSH BABURAO | Amazon | 25000 |

| Sr.No. | Candidate Name | Company Name | Stipend (Rs) |
|---|---|---|---|
| 16 | JAGTAP ATUL SHANTARAM | LTI | 8000 |
| 17 | JAIN NIRMAL SUNDARLAL | cloudage | - |
| 18 | KARAN S SOMESHWAR | Fair Deal Real Estate | 5000 |
| 19 | KELHE PRATIK DEELIP | Creatosaurus | 5000 |
| 20 | KUKREJA SAHIL SUNIL | Pune Technology Lab | - |
| 21 | MUSTAFA HASAN ALTHANI | WebWide Technology | 5000 |
| 22 | NAGANNAWAR SRIYA SUHAS | Enalito | 10000 |
| 23 | OVHAL SHUBHANGI ANKUSH | secura | 15000 |
| 24 | PENDYALA ESHWAR VENKATA | Persistant | 10000 |
| 25 | RUNWAL JAYANTI RAJESH | Cognologix | - |
| 26 | SHRADHA GUPTA | Expert Systems | 6000 |
| 27 | SOHAM RAINA | DISQ | 15000 |
| 28 | UNAVANE ADITYA RAJESH | Creatosaurus | 5000 |
| 29 | VISHAL WALI | SVSU,Gurugram | - |
| 30 | WAGHELA RISHIKESH ANIL | Trycatch group | 8000 |
| 31 | YELE SNEHA DNYANESHWAR | Laxmi Civil | 8000 |

# "PLACEMENT RECORD"

| Sr. No. | Name of Student | Name of Company |
|---|---|---|
| 1 | BOLLA VINIT VIRENDRA | Infosys |
| 2 | DEEPIKA M CHOUDHARY | Cognizant |
| 3 | DHOTRE RAHUL DILIP | Qualys |
| 4 | GOSAVI PRASHANT RAMPAL | NTT Data |
| 5 | HAMILPURE SURESH SHIVAJI | HSBC |
| 6 | HARKANTH NIKHIL ISHWARLAL | Infosys |
| 7 | JADHAV SANTOSH BABURAO | Innogenium |
| 8 | JAGTAP ATUL SHANTARAM | LTI |
| 9 | KANERI SUSHMITA RAJENDRA | CLSA |
| 10 | KARAN S SOMESHWAR | sagitec solutions |
| 11 | KELHE PRATIK DEELIP | HSBC |
| 12 | KOKATE YOGINI RAVINDRA | Persistent systems |
| 13 | MUTYAL PRIYANKA DILIP | Veritas Technology LLC |
| 14 | OVHAL SHUBHANGI ANKUSH | LTI |
| 15 | PENDYALA ESHWAR VENKATA | Persistent |

# "PLACEMENT RECORD"

| Sr. No. | Name of Student | Name of Company |
|---|---|---|
| 16 | RUNWAL JAYANTI RAJESH | Deutsche Bank |
| 17 | SHINDE ARUNDHATI PRADEEP | Nuclius Health(start up) |
| 18 | SHINDE SNEHA PRAKASH | CueMath |
| 19 | SHRADHA GUPTA | Anlage Consultancy |
| 20 | SOHAM RAINA | LTI |
| 21 | UNAVANE ADITYA RAJESH | HSBC |
| 22 | AGRAWAL NIKHIL KAILAS | Barclays |
| 23 | BHATADE RACHANA RAMESH | Musafir.com |
| 24 | BHURE ABHIJEET ASHOK | EQ Technologic |
| 25 | CHELLWANI VINAY BHAGWAN | VMware |
| 26 | DESHMUKH SHARYU RAVIKUMAR | Noovosoft Technologies |
| 27 | DESHPANDE SHREEYA VIVEK | Signify |
| 28 | DOKE NIKET SUBHASH | VMware |
| 29 | GAIKWAD HRISHIKESH RAMESH | Seagate Technology |
| 30 | HARSHWARDHAN GOYAL | sincrodigital |

# “PLACEMENT RECORD”



| Sr. No. | Name of Student | Name of Company |
|---|---|---|
| 31 | HEBARE DINESH DHARMENDRA | Siemens |
| 32 | JANHAVI PATIL | Neilsoft |
| 33 | JHA VARSHA GIRINDRA MOHAN | Barclays |
| 34 | JOSHI SHAUNAK SHRIKRISHNA | fastcode.ai |
| 35 | KALE ROHIT ARUN | Credit Suisse |
| 36 | KUDE HARSHADA DILIP | Signify |
| 37 | KULKARNI PRANJALI PRASHANT | Credit Suisse |
| 38 | LOKHANDE MOHIT VIJAY KUMAR | Logicmonitor |
| 39 | PATIL ASHWINI VISHWANATH | Quantiphi |
| 40 | POPHALE ATHARVA SUDHIR | Logicmonitor |
| 41 | RAUT ABHIJEET NITIN | HSBC |
| 42 | RUDRAWAR SAURABH MOHAN | Barclays |
| 43 | SACHDEV HITESH RAJKUMAR | Human Resocia |
| 44 | SHAIKH AFFAN MUNAF | Credit Suisse |

# "PLACEMENT RECORD"

| Sr. No. | Name of Student | Name of Company |
|---|---|---|
| 31 | HEBARE DINESH DHARMENDRA | Siemens |
| 32 | JANHAVI PATIL | Neilsoft |
| 33 | JHA VARSHA GIRINDRA MOHAN | Barclays |
| 34 | JOSHI SHAUNAK SHRIKRISHNA | fastcode.ai |
| 35 | KALE ROHIT ARUN | Credit Suisse |
| 36 | KUDE HARSHADA DILIP | Signify |
| 37 | KULKARNI PRANJALI PRASHANT | Credit Suisse |
| 38 | LOKHANDE MOHIT VIJAY KUMAR | Logicmonitor |
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| 42 | RUDRAWAR SAURABH MOHAN | Barclays |
| 43 | SACHDEV HITESH RAJKUMAR | Human Resocia |
| 44 | SHAIKH AFFAN MUNAF | Credit Suisse |