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Research Project and Extension Activity

The Research Committee of college arranges seminars, workshops, conferences in the Research area of the fields like Computer Science, Commerce, Electronics, Mathematics etc. The faculty members are encouraged to participate and present their research work.

Five Minor Research Projects are sanctioned by BCUD, Savitribai Phule Pune University for duration 2016-18 in the field of Computer Science, Commerce, Arts and Electronics.

The Research Committee had organized following workshops/seminars under QIP, BCUD and Savitribai Phule Pune University.

1. State Level Seminar on Cashless Economy: Scope and Challenges in India

The Department of Commerce had organized a State Level Seminar on '**Cashless Economy: Scope and Challenges in India**' on 6th January, 2016. The Seminar had three academic sessions in all, preceded by the Inaugural Function and concluded with the Valedictory Function. Each session was followed by an interactive question-answer session where the students could clarify their doubts as well as interact with the Guest Speakers.

Inauguration Session

The Seminar was inaugurated by the Chief Guest, Shri. Yamaji Malakar, former Co-editor Sakal and member of Arthkranti Pratishthan, Pune, Guest of Honour, Shri. Kiran Kulkarni, Advocate and Tax Consultant, Pune.

Chief Guest Shri. Yamaji Malakar, in his inaugural address commented that in addition to Demonetization, the government must implement economic reforms proposed by Arthkranti Pratishthan so as to boost the economic growth and to curtail corruption.

First Session

In the first session of the day, Shri. Yamaji Malakar, Former Co-editor Sakal, Member of Arthkranti Pratishthan addressed the conclave on the broad topic "Cashless Economy: Scope and Challenges in India." He talked about the possible reforms in Indian economy. He also discussed the need for implementation of the five Arthkranti proposals to reshape the Indian economy.

Second Session

Dr. Kiran Kulkarni, Advocate, Tax Consultant, Pune was the resource person for the second session and he delivered a lecture on the topic 'Aftermath of Demonetization'. He gave an overview on the history of demonetization.

Third Session

Dr. Sanjay Kaptan, Professor and former Head, Department of Commerce & Research Centre, Savitribai Phule Pune University, Pune continued with the third session discussing on the topic Is India Ready for Cashless Economy?

Valedictory Session

The Seminar concluded with the Valedictory & Certificate Distribution Ceremony presided over by Shri Kiran Kulkarni and Dr. Sanjay Kaptan. It commenced with experience-sharing by the participants.

2. Two days state level workshop on big data and its applications

Department of Computer Science had organized “**Two Days State Level Workshop on Big Data and Its Applications**” on 7th and 8th February 2017.

The Workshop was inaugurated at the hands of Chief guest and Resource Person, Mr. Manish Jain, Specialist in Big Data, HADOOP, IOT, Java, Cloud Computing and Ethical hacking.

Mr. Manish Jain, spoke on the importance of Data Science in real life and motivated participants in grabbing the opportunities present in this field.

Session I:

In this session sir gave introduction to Big Data, R in Data Science. He briefed about history of R and gave an insight into R, Data Structure and Data Type, all basic concepts of R-programming.

Session II:

In this session sir covered advanced R-programming, Reading datasets from other environments into R, Writing datasets from R environment to other environments, Real time analysis of Facebook.

Session III:

In this session sir covered Hadoop, why is Hadoop used, the Hadoop eco-system, Big data/Hadoop use cases, HDFS internals and use cases, Installing and configuring Hadoop, Basic Hadoop commands, Hands-on exercise, Introduction to Map Reduce, MR code using Pig, Introduction to Pig, Pig's Features, Pig Use Cases, Interacting with Pig

Session IV:

In this session sir covered Data Analysis with Pig, Introduction to Hive, Hive Schema and Data Storage, Comparing Hive to Traditional Databases, Hive vs. Pig, Hive Use Cases and Interacting with Hive.

3. Two Days State Level Workshop On “Research methods and tools required in data analysis”

The Department of Computer Science had organized **Two Days State Level Workshop On Research methods and tools required in data analysis**. The workshop was inaugurated by Chief Guest Dr. Sanjay Kadam, Joint Director ECIP Group C-DAC, Pune, and spoke about “Importance of Research - conducting research from a long term career prospective”.

Session I - In first session of first day Dr. Sanjay Kadam shared his views and discussed about Research Framework- “A research study starts with a problem that they have determined within their broad area of interest.”

Session II - Dr. Haridas Acharya, Professor, MCA Department, Allana Institute of Management Sciences, Pune said the main purpose of Tanagra project is to give researchers and students an easy-to-use data mining software. And the second purpose of TANAGRA is to propose to researchers an architecture allowing them to easily add their own data mining methods, to compare their performances.

Session III - Dr. S. D. Gore, Former Head of the Department, Dept. of Comp. Sci., SPPU, Pune introduced the participants to SPSS software and briefed upon its utility along with a comparison with Ms Excel’s Data analysis capability.

Session IV - Mr. Amit Doshi had emphasized, the MATLAB is combine a powerful numeric engine and programming environment with interactive tools for statistical analysis, image processing, signal processing, and other domains.

4. Avishkar 2016-2017

The Research committee had organized Orientation and Evaluation program for students of all streams for participation in AVISHKAR 2016.

In all 16 teams participated out of them 9 teams were finalized for zonal level and one team of student among our college is representing SPPU at State Level Avishkar at Nanded which was held on **27th-29th Jan 2017**.