



Cascade



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Editorial

Big Data Analytics

Big data analytics is the process of examining large amounts of data of a variety of types to uncover hidden patterns, unknown correlations and other useful information. Such information can provide competitive advantages over rival organizations and result in business benefits, such as more effective marketing and increased revenue.

The primary goal of big data analytics is to help companies make better business decisions by enabling data scientists and other users to analyze huge volumes of transaction data as well as other data sources that may be left untapped by conventional business intelligence (BI) programs. These other data sources may include Web server logs and Internet click-stream data, social media activity reports, mobile-phone call detail records and information captured by sensors.

Big data analytics can be done with the software tools commonly used as part of advanced analytics disciplines such as predictive analytics and data mining. But the unstructured data sources used for big data analytics may not fit in traditional data warehouses. Furthermore, traditional data warehouses may not be able to handle the processing demands posed by big data. As a result, a new class of big data technology has emerged and is being used in many big data analytics environments. The technologies associated with big data analytics include NoSQL databases, Hadoop and MapReduce. These technologies form the core of an open source software framework that supports the processing of large data sets across clustered systems.

Potential pitfalls that can trip up organizations on big data analytics initiatives include a lack of internal analytics skills and the high cost of hiring experienced analytics professionals, plus challenges in integrating Hadoop systems and data warehouses, although vendors are starting to offer software connectors between those technologies.

Events conducted at IE Building, Bharath Heavy Electricals Ltd.(BHEL)



On 10th December 2013, Shri A. Abdul Khader, Assistant Professor, Department of Computer Science & Engg., M.A.M. College of Engineering, Tiruchirappalli gave a special lecture on 'Web Technology'. In his lecture, the speaker gave an overall view about the various technologies and software used for web design and development. He also touched upon the recent trends in web technology.

A lecture programme on 'BackUp and Restoration of File Server Using NetBackUp' was conducted on 21st January 2014. The resource person was Mr. Srinivasa Reddy Bala, Assistant Engineer, ITS&S, Bharath Heavy Electricals Ltd., Tiruchirappalli. He discussed about disaster recovery and its benefits, importance of taking backups, archive and restoring the file server using NetBackUp. NetBackUp is an enterprise level heterogeneous system that provides cross-platform backup functionality to a large variety of windows, UNIX and Linux operating systems. He also highlighted on Client deduplication, client encryption, Bare Metal Restore, Vault and other features available in NetBackUp



Ms. P. Shanthi, Associate Professor, Department of Computer Science and Engg., M.A.M College of Engineering, Tiruchirappalli gave a special lecture on the topic 'Cognitive Science and Artificial Intelligence' on 11th February 2014. In her talk, she discussed the role of artificial intelligence in cognitive science research. She also touched upon some of the achievements in cognitive science the help improve artificial simulation of the human mind. She said that the ultimate goal of cognitive science and artificial intelligence is to eventually develop human level machine intelligence.

Voice of Love

Even if we carry good intentions to correct others, only if we carry respect in our words, will they look up to us and accept our messages in their life.

Events conducted at IE Building, Bharath Heavy Electricals Ltd.(BHEL)

A lecture on 'Computerization of Boiler Remaining Life Assessment (RLA) Reports' was organized on 11th March 2014. Mr. D. Senthil Kumar D, Dy. Manager / ITS&S, Bharath Heavy Electricals Ltd., Tiruchirapalli spoke on the topic. In his talk he highlighted on the stages of RLA study, strategic importance of RLA, need for computerizing RLA reports, and benefits of RLA reports.



Events conducted at Bharathidasan University Technology Park (BUTP)



A state-level workshop on "Advanced Research Concepts in Computer Science using MATLAB" was organized on 18th December 2013 at the BUTP. M.Phil. & Ph.D. research scholars and M.Tech. students from various colleges in Tamil Nadu participated in the workshop. The workshop included lectures, demonstration and hands-on sessions exposing the participants to a few research problems and implementing them using MATLAB.

On 30th January 2014, a state-level workshop on 'Android App Development Project' was organized at BUTP. Mr. Subhash E.P, Founder & Head, TechV, Chennai, conducted the workshop. The resource person explained how to start a New Android Project, Add UI and Media Features, Add Application Logic, Debug Application on Emulator, Android Phone or Android Tablet, and Publish. Around 60 students from various colleges in Tamil Nadu participated in the workshop.



Faith, Trust and Hope

Once all villagers decided to pray for rain. One the day of prayer all people gathered but only one boy came with an umbrella... that's Faith.

When you throw a one year baby in the air, he laughs because he knows his mother with catch him... that's Trust.

Every night we go to bed and have no assurance to wake up alive in the morning, but still we set alarm for tomorrow... that's Hope.

Events conducted at Bharathidasan University Technology Park (BUTP)



On 25th February 2014 an Eye Camp was organized in association with Vasana Eye Care, Tiruchirappalli. Students and staff members from various colleges took the advantage of this camp. The importance of eyes and their care was explained to them by the visiting doctors.

On 4th March 2014, a Road Talk on 'Innovations' by Mr. S. Kumar, Senior Director, Innovation Group, Cognizant Technology Solution was organized. The speaker explained about the innovations in various fields. He also enlightened the audience with the technical skills to be acquired for developing innovative ideas.



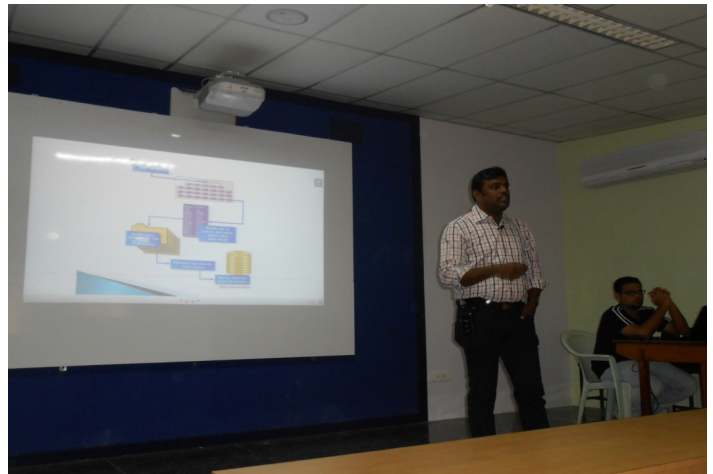
On 27th March 2014, a National Workshop on 'Research Issues in Big Data Analytics' (first of its kind in Tiruchirappalli) was organized. Mr. A. K. A. Rahmaan, Hon'ble Second Additional District Judge, Tiruchirappalli inaugurated the workshop. Dr. T. Arun Kumar, Director, School of Computing, VIT University, Vellore and his team conducted the workshop. The workshop consisted of 4 sessions. In Session-1, basics aspects of big data analytics were discussed. Session-2 dealt with the research issues of big-data analytics. In Session-3, Hadoop and implementation aspects were covered. The entire Session-4 was devoted to the MapReduce programming model. The workshop received an overwhelming response, in which about 150 participants comprising of research scholars, faculty members, and students from various parts of Tamil Nadu attended and derived benefits.

Events conducted at Jamal Mohamed College (JMC)

Mr. A. Younus Parvez, USA delivered a talk on Technology Trends and Career Planning on 16th December 2013. In his talk, he discussed about the latest technology trends in IT. He also asked the students to equip themselves with the technical required for a better job career. The students interacted with speaker with great enthusiasm.

Dr. M. Nazreen Banu, Professor, Department of MCA, MAM college of Engineering, Tiruchirapalli delivered a special lecture on 'Grid vs Cloud Computing – A Star Experience' on 19th December 2013. In her talk she gave a clear idea of the common features and differences between the Grid and the Cloud. The common features she discussed were about the scalability, heavy use of abstraction, multi tenancy and multi tasking. She also said that Grids operate in a project-oriented model, to address large-scale computing problems. Clouds, on the other hand, address internet-scale computing problems. The students had a useful interaction with the speaker at the end of the session.

Mr. M. Abdul Malick Senior Digital Marketing Expert, Cognizant Technology Solutions, Chennai conducted an awareness programme on "Digital Media" on 4th January 2014 at 10.00 a.m. He highlighted on the different technologies regarding the development of digital media. PG students attended the programme and derived benefits.



Mr. J. Ashik Shah, Managing Director, Vidura Placement & Training Academy, Bangalore delivered a 'Placement Talk' on 4th January 2014 at 3.30 p.m. Final year PG students of the afternoon shift attended the programme. The speaker greatly emphasized on the technical and non-technical skills to be developed by the students to get better placements.



Mr. R. Rajesh, Technical Trainer & Ad-Film Maker, PC Media Lab, Trichy gave a presentation and demo on "Animation & Graphics Designing" on 6th January 2014 at 03.00 p.m. for the PG women students of the afternoon shift. He discussed about the various technologies to be learnt for designing animation and graphics applications.

Voice of Love

**Tiger does not know its strength. Only a deer knows how strong a tiger is.
So at any time do not be discouraged. Your strength is known by others.**

Events conducted at Jamal Mohamed College (JMC)

Inter-Collegiate Technical Symposium – VARIT-2K14

Jamal Mohamed College, Tiruchirappalli in association with the CSI Tiruchirappalli Chapter organized an Inter-Collegiate Technical Symposium, VARIT-2K14, for under graduate students of arts, science and engineering colleges of Bharathidasan University, Tiruchirappalli on 9th January 2014. An illustrious alumnus of the college, Mr. N. Sadiq Ali, Director, Institute of Business Studies, Port Moresby, Papua New Guinea, inaugurated the proceedings. To commemorate the occasion of VARIT 2K14, a souvenir was released by the chief guest.

The students from about 30 Arts, Science & Engineering Colleges participated in the symposium in which events like Bug-Fix, Cyber Art, Mind Bogglers, Ad-Mania, and Hardware Blending were conducted.

Another illustrious alumnus of the college, Mr. R. Shabir Ahamed, Chairman, Rahman Group of Business Ventures & Varicom IMPLEX, Tiruchirappalli delivered the valedictory address and distributed the prizes and certificates to the winners.

The students of Saranathan College of Engineering, Tiruchirappalli won the overall championship and the students of Nehru Memorial College, Puthanampatti, Tiruchirappalli won the second place.



An inter-departmental quiz programme was conducted on 28th January 2014 for the UG students of the Departments of Computer Science, Computer Application and Information Technology. The contest was conducted for the I, II and III year students separately. Around 80 teams participated in the programme. Online Prelims were conducted and out of the participating teams 5 teams were selected in each category. Finals were conducted for each category separately on stage. A winner team and a runner team were selected in each category.

Events conducted at Jamal Mohamed College (JMC)

A Two-Day Workshop on Research Methodology in Computer Science was organized for the benefit of M.Phil. scholars and PG students on 2nd & 3rd March 2014. Dr. A.M. Mohamed Sindhasha, Principal, inaugurated the workshop.

On the first day, Mr. K. R. Sekar & Mr. J. Sethuraman (Assistant Professors, School of Computing, Sastra University, Vallam) gave a lecture-cum-demo on 'Data Mining Techniques using Weka Software.

On the second day, Ms. J. Premalatha & Mr. Ifjaz Ahamed (Full-Time Research Scholars, School of Computing, Sastra University, Vallam) gave a lecture-cum-demo on 'Image Processing through Soft Computing Techniques using MATLAB'

At the end of the second day, Dr. A. K. Khaja Nazeemudheen, Secretary & Correspondent delivered the valedictory address & distributed the certificates to the participants. The success of the workshop was evident from the feedback of the participants.



On 4th March 2014, Mr. S. Kumar, Senior Director, Innovation Group, Cognizant Technology Solutions, Chennai gave a special talk on 'Innovations in IT'. He was here to brief about the National level competition on Innovations in IT conducted by CTS. The students had a great time interacting with the speaker.

GREAT ATTITUDE

**Once a Bird asked a BEE, "After a continuous hard work, you prepare the honey.
But a man steals the honey. Do you not feel sad?"
Then the Bee replied, "Never!!
Because a man can only steal my honey, not the art of making honey".**

Events conducted at Jamal Mohamed College (JMC)

A National Conference on Advanced Computing (NCAC-2014) was organized on the 5th March 2014. The conference was inaugurated by the Secretary and Correspondent of the college management committee, Dr. A.K. Khaja Nazeemudeen, at 9.00 a.m. The e-proceedings of NCAC-2014 was released by the Secretary and Correspondent, and the first copy was received by the Principal.

Four technical sessions were conducted during the conference – three invited talks and one paper presentation session. The invited talks were delivered by Mr. Syed Moinudeen, Software Engineer, IBM India Pvt. Ltd.,Bangeluru on the topic “Big Data and Hadoop”, Dr. Ka. Selvaradjou, Associate Professor of Computer Science and Engineering, Pondicherry Engineering College. Puducherry on the topic “Research Issues in Mobile computing”, and Dr. Arunkumar Thangavelu, Assistant Director, Centre for Excellence in Ambient Intelligence & Professor, School of Computer & Engineering , VIT University, Vellore on the topic “Issues in Data Mining using Pattern Mining”. The Paper Presentation session was chaired by Dr. Arunkumar Thangavelu.

Dr. A.M. Mohamed Sindhasha, Principal delivered the valedictory address and the Secretary and correspondent of the College distributed the certificates to the participants. Dr. Arunkumar Thangavelu offered felicitations. Around 150 participants including research scholars, teachers and students attended the conference and derived benefits.



A special lecture on ‘Pervasive Computing’ was given by Prof. H. Karamath Ali, Assistant Professor of Computer Science, Periyar E.V.R College, Tiruchirappalli, on 10th March 2014. In his talk, he discussed about the meaning of pervasive computing, its applications, advantages and disadvantages. He said that Pervasive computing devices make day-to-day computing activities extremely easy to access. Pervasive computing also has a number of prospective applications, which range from home care and health, to geographical tracking and intelligent transport systems, he added. He also said that pervasive computing has certain disadvantages such as lack of security, slow connections, and very expensive operating costs. PG students attended the lecture and derived benefits.

Dr. Caldwell Newton, Department of Computer Science, Bishop Heber College, Tiruchirappalli gave a special lecture on ‘Mobile Networks’ on 11th March 2014. In his lecture, he highlighted about the applications and limitations of mobile networks. He also touched upon some research areas in the field. The students participated in the lecture and derived benefits.

Voice of Love

THE BUMBLEBEE

According to scientists, the bumblebee's body is too heavy and its wing span too small. Aerodynamically, the bumblebee cannot fly. But the bumblebee doesn't know that and it keeps flying.

When you don't know your limitations, you go out and surprise yourself. In hindsight, you wonder if you had any limitations. The only limitations a person has are those that are self-imposed.

Don't let education put limitations on you.

Events conducted at Jamal Mohamed College (JMC)

Prof. K. Muthuramalingam, Assistant Professor, School of Computer Science & Engineering, Bharathidasan University, Tiruchirappalli delivered a talk on 'Wireless Sensor Networks' on 12th March 2014. He discussed about the differences between the wired and wireless sensor networks. He also spoke on the advantages and limitations of WSNs.



Prof. C. Balakrishnan, Department of Computer Science, St. Joseph's College, Tiruchirappalli gave a special lecture on 'No SQL' on 13th March 2014 at 10.00 a.m. In his lecture he discussed about the objectives, need for, advantages and limitations of No SQL databases. He also spoke on the types of No SQL databases.

Prof. S. Shakila, Department of Computer Science, Government Arts College, Tiruchirappalli delivered a lecture on 'Anonymous Communication' on 13th March 2014 at 3.00 pm. for the PG students of the afternoon shift. She gave an overview of Anonymous Communication highlighting on its advantages and limitations.

Prof. J. Sai Geetha, Department of Computer Science, Nehru Memorial College, Puthanampatti gave a talk on 'Network Security' on 14th March 2014. It was a general talk on Network Security covering topics like, need for security, common security attacks and countermeasures, firewalls, and social problems. The students had a useful interaction with the speaker at the end of session.

Prof. T. Kokilavani, Department of Computer Science, St. Joseph's College, Tiruchirappalli gave a lecture on 'Evolution of Distributed Computing' on 17th March 2014. She discussed about how the concept of distributed computing evolved from parallel computing since 1985 till date. She also spoke on some applications, advantages, disadvantages, issues and challenges in distributed computing.

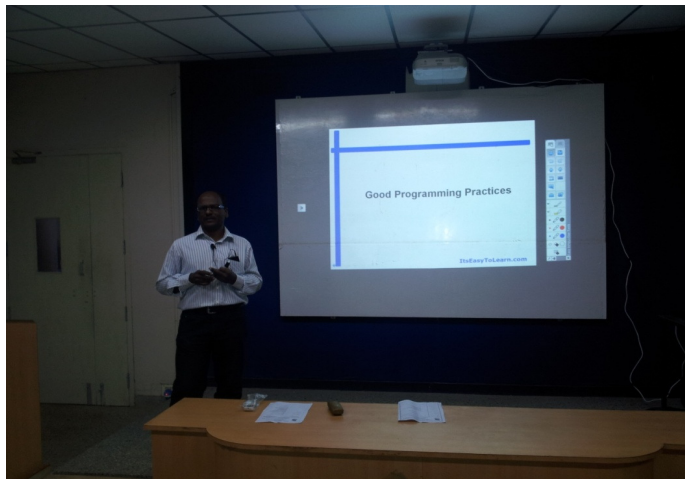
Dr. R. Baskaran, Department of Computer Science & Engineering, Anna University, Chennai delivered a special lecture on 'Data Mining and Cognitive Science' through Video Conferencing on 18th March 2014 at 10.30 a.m. In his talk, he discussed about the concept of data mining and its techniques. He also highlighted on the role of data mining in exploring cognitive science.

Dr. T.N. Ravi, Assistant Professor of Computer Science, Periyar E.V.R College, Tiruchirappalli gave a special talk on 'Grid Computing' on 18th March 2014 at 3.30 p.m. for the PG students of the afternoon shift. He discussed about the benefits and applications of grid computing. He also briefed on the data grid and various methods of grid computing

Voice of Love

The state of our mind and emotions not only affect us, but it also has a bearing on everyone close to us, everyone who is connected to us. So, it is all the more important for us to be peaceful.

Events conducted at Jamal Mohamed College (JMC)



Mr. A. Zakir Hussain, Chief Technology Officer, Technozyme, Tiruchirappalli gave a lecture on 'Recent Trends in IT' on 19th March 2014. He gave a clear picture of the current job trends in the field of IT. He also discussed about the technologies and skills that have to be learnt to suit the requirements of the IT industry for better career in IT. He also highlighted on the Good Programming Practices. The session ended with a useful interaction with the students

Mrs. S. Kalaivani, Project Co-ordinator, Bharathidasan University Technology Park, Tiruchirappalli delivered a lecture on 'Open Source Technology' on 20th March 2014. In her talk she clear explained the differences between a closed source and an open source. She also discussed about the criteria for open source, advantages, disadvantages, and some examples of open source. The speaker also gave an overview of the open source software available. The participants had a fruitful question – answer session with speaker at the end.

Events conducted at MAM College of Engineering (MAMCE)

A special Orientation Programme on "Cognitive Science – Core and Applications", was organized for the faculty members of CSE on 19th December 2013. Dr. A. Vadivel, Associate Professor of Computer Application, National Institute of Technology, Tiruchirappalli and Mrs. P. Shanthi, Research Scholar and Associate Professor of CSE, MAMCE conducted the programme.

A Programming contest in C was conducted for the second year students on 16th December 2013. Many students participated in the contest. Prizes were given to the winner and runner.

A Seminar on 'Fundamentals of Networks' was organized for the II and III year students of CSE on 18th December 2013. The Resource Person was Dr. S. Selva Kumar, Professor of CSE, NIT, Tiruchirappalli.

A Winter School Contest was organized on 12th December 2013 for II and III year students, and on 23rd December 2013 for IV year students. The events such Tec Quiz, GD, Tech Dumb C and Programming Contest were conducted. Cash awards were given to the winners and runners. Certificates were given to all the participants.



Events conducted at MAM College of Engineering (MAMCE)



A One Day Seminar on 'Effective Leadership' was organized by Infosys Ltd. in the Department of CSE on 28th December 2013. Mr. George Koshi, Lead Education and Development, Infosys, Chennai spoke on the topic.

A Seminar on 'Campus Beyond Success' was conducted on 7th January 2014. The Resource Person was Mr. Suganth, Business Head, HCL Technologies, Noida. The final year CSE students of MAMCE, MAMCET, and MAMSE participated in the seminar and derived benefits.

A Faculty Development Programme (FDP) on 'Cloud Infrastructure and Services' was organised by ICTACT in association with Department of CSE from 27th to 31st January 2014. The Resource Persons were Mr. Benhar Charles of ICTACT and Mr. S. Shanmugavel EMC Corporation, Bangalore. 7 internal and 23 external participants attended the programme.



EMC Cloud Certification Day on "Cloud Infrastructure and Services" was held on the 8th February 2014 at Saranathan College Of Engineering, Tiruchirappalli. 7 faculty members attended the certification.

Events conducted at MAM College of Engineering (MAMCE)



YITP Award 2013, Regional Round of YITP Award for Region VII was organized by Tiruchirappalli chapter at M.A.M. College of Engineering, Siruganur, Tiruchirappalli on 21st February 2014. 12 nominations from academicians, professionals and consultants were received, Out of them 8 nominations were selected.

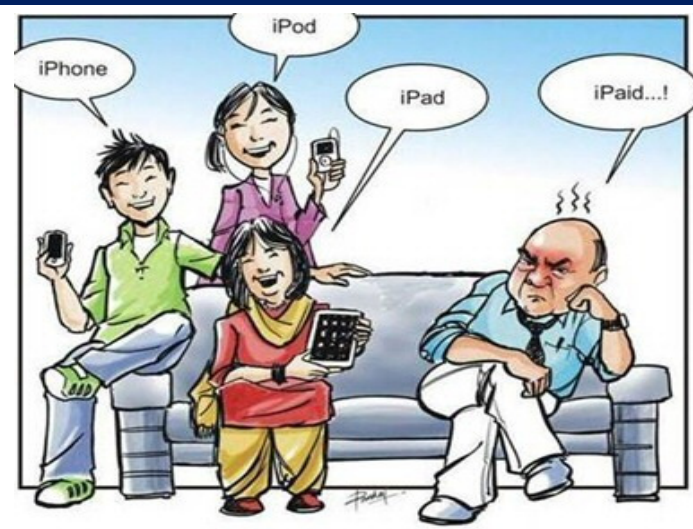
A Workshop on 'Information Security Incident Responses' was conducted on 14th March 2014. The Resource Person, Sri. R. Rajagopalan, from EMC, Bangalore motivated the students in the field of information security. He also emphasized on job opportunities available for those who obtain International certifications. He also explained the concepts of antivirus, malware, internet gateway, firewall, proxy, IDS/IPS and APT.

A Workshop on 'Google Apps for EDU' was conducted from 25th to 27th March 2014 for the faculty members. Mr. Jayanth Prakash, Business Executive, Gany Mede Solutions and Google Apps Initiative was the Resource Person. During the workshop the Resource Person discussed about the benefits, use cases, and Case studies on Google apps like: Docs, Forms, Sites, Spreadsheets, Calendar, etc. elaborately. The participants had a useful interaction with the resource person at end of each session.



A Campus connect Webinar on 'Critical Thinking' was conducted on 29th March 2014. Mr. George Koshi, Lead-Learning & Development, Infosys was the Resource Person. Heads and faculty members participated in the seminar and derived benefits

A Modern Computer Family



Unemployment



Minutes of Management Committee Meetings

MINUTES OF THE MC MEETING HELD ON 02-01-2014

The Management Committee meeting was held in the BUTP office, Khajamalai, Tiruchirappalli at 06.00 p.m.

Members Present: Dr. Gopinath Ganapathy, Dr. M.A. Maluk Mohamed, Mr. N. Sekar, Mr. D. Senthil Kumar, Dr. S. Ravimaran, Mr. D. Varatharajalu, Mr. G.S. Ragunathan, Mr. A. Jahir Hussain, Mr. N. Rajasekaran, Dr. T. Abdul Razak, Dr. E. Kirubakaran

Agenda:

1. YITP award
2. Regional Student Convention
3. National Seminar on 'Big Data'
4. Any other matter.

Actions:

1. Accounts of the chapter, up to December 2013, were submitted by our Treasurer, Mr. N. Rajasekaran.

Resolutions:

1. Resolved to conduct the contest for YITP award at regional level on 8th February 2014 at M.A.M. College of Engineering, Tiruchirapalli.
2. Resolved to conduct the CSI Regional Student Convention on 21st and 22nd February 2014 at M.A.M. College of Engineering, Tiruchirapalli.
3. Resolved to conduct a National Seminar on 'Big Data' on 14th February 2014 at BUTP, Tiruchirapalli.
4. Resolved to conduct a workshop on 'Android Apps Development' on 30th January 2014 at BUTP, Tiruchirapalli.

MINUTES OF THE MC MEETING HELD ON 21-03-2014

The Management Committee meeting was held in the BUTP office, Khajamalai, Tiruchirappalli at 06.00 p.m.

Members Present: Mr. G.S. Ragunathan, Mr. N. Sekar, Mr. D. Varatharajalu, Mr. D. Senthil Kumar, Mr. S. Lakshmanan, Dr. T. Abdul Razak

Agenda:

1. National Workshop on 'Big Data Analytics'
2. Any other matter.

Resolutions:

1. Resolved to invite Mr. A.K.A. Rahmaan, Honorable Additional District Sessions Judge, Tiruchirappalli as the chief guest for inaugurating the workshop on 27-03-2014.
2. Resolved to fix up Dr. M.A. Maluk Mohamed, Regional Student Coordinator to deliver the valedictory address on the day.
3. Resolved to entrust Dr. Gopinath Ganapathy with the responsibility of getting the hall ready and making arrangements for lunch, tea, snacks, memento and photograph.
4. Resolved to entrust Dr. T. Abdul Razak with the responsibility of preparing invitations, banners, and certificates.

Voice of Love

Leadership is in helping people to expand themselves by challenging them to go beyond their limitations.