



■ **BCUD Sponsored Workshop on “Digital Communication”**



Department of MCA organized two days state level workshop on “Digital Communications-Challenges and Opportunities” on 23rd February 2018 to 24th February 2018. This workshop was sponsored by Savitribai Phule Pune University, Pune under Quality Improvement Programme (QIP).

The workshop was inaugurated on 23rd February 2018 at 10.00 am in John Von Neumann Hall, Department of Computer Engineering. The chief guest for the Inauguration function was Dr. G. K. Kharate, Principal of Matoshri College of Engineering and Research Centre, Nashik.

Dr. S. S. Sane, Head, Department of Computer Engineering, Mr. S. S. Jhawar, Coordinator, Department of MBA-MCA and Dr. V. C. Bagal, Head, Department of MCA were the convener of the workshop and Mrs. A. L. Rane was co-convener of the workshop. Total 35 participants participated in the workshop.

■ **ASCEND 2K18**

Department of MCA organized State Level Technical Symposiums ASCEND 2K18 on 20th and 21st February 2018. This Technical Symposium was held for the budding graduates to showcase their talent and skills under one roof and also to have a feel of the sporting spirit among all the graduate students from different locations.

Mr. Arvind Mahapatra, CEO, Netwin Infosolutions Pvt. Ltd., Nashik was the Chief Guest for the inauguration ceremony. Prof. Dr. K. N. Nandurkar, Principal, KKWIEER, Dr. S. S. Sane, Vice-Principal, KKWIEER, Prof. S. S. Jhawar, Coordinator, Department of MBA-MCA, Dr. V. C. Bagal, Head, Dept. of MCA and Convener of ASCEND 2K18 were the dignitaries for the inauguration ceremony.

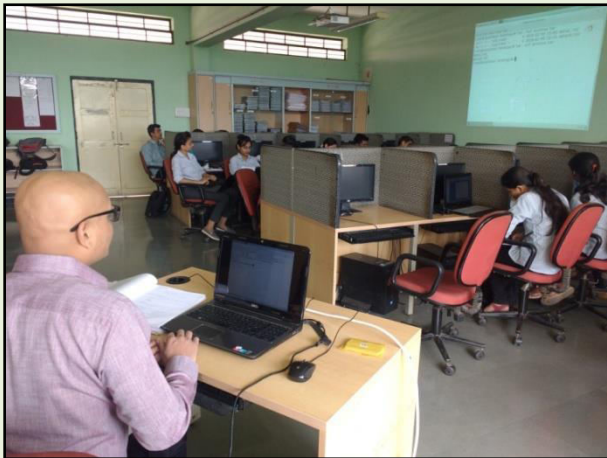


More than 390 participants registered to ASCEND 2K18. Participants from various locations across Maharashtra like Sinnar, Dhule, Lasalgaon, Nashik etc. were highly satisfied by all the facilities and

technical support furnished for various competitions.

At ASCEND 2K18, following technical events were organized: Code Breakers, Poster Competition, Quiz Maze, Ludo, Selfie Mania, Counter Strike and Treasure Hunt.

- **Two Days Interdisciplinary Workshop on "Linux Operating System"**



Two days interdisciplinary workshop on "Linux Operating system" was organized on 5th - 6th Feb 2018. Resource persons for the workshop were Mr. Kishor Ahire (RHCA Certified) and Prof. Nikhil Baravkar (RHCE Certified). The objective of workshop was to familiar participants with installation of Linux OS, Basics of Linux OS, Shell Scripting and Linux Networking. 38 students of MCA and Electronics Engineering participated in workshop.

- **Expert Talk on "SageMath : an Open Source Mathematics Tool"**

An Expert Talk on " SageMath: an Open Source Mathematics Tool" is delivered by Mr. Mayuresh Pardeshi, Research Scholar, NTH University, Taiwan on 13th Jan 2018. The participants were

introduced with SageMath, Applications of SageMath and Demonstration of How to use SageMath.

- **Expert Talk on "Windows Presentation Foundation"**

An Expert Talk on "Windows Presentation Foundation" is conducted by Ms. Harsha Patil from HCL Technologies, Pune. The SYMCA students acquainted with effective interfaces in the multi-faceted world using Windows Presentation Foundation.

- **Seminar on "Women Empowerment"**



Seminar on "Women Empowerment" by Dr. Minakshi Gawali from K.S.K.W. College, Nashik on 25th Jan 2018. This seminar was specially conducted for girl students of FY and SYMCA class to build confidence among them for upliftment of moral values.

- **Expert Lecture on "Node JS"**

Expert Lecture on "Node JS" is delivered by Mr. Chetan Mekha from Winjit Technologies, Nashik

on 3rd March 2018. Students acquainted with the knowledge of Node Javascript programming.

▪ **Expert Lecture on "Communication Protocols"**
Mr. Badal Kumar Tiwari, Hind Rectifiers Ltd, Mumbai delivered an Expert Lecture on "Communication Protocols" for SYMCA students on 10th March. Students got motivated to face the challenge in solving the unsolved problems by understanding the importance of research in industry.

▪ **Expert Lecture on "Web Services"**
Expert Lecture on "Web Services" is conducted by Mr. Rajesh Borse, HAL, Nashik on 1st March 2018 for SYMCA students. Mr. Borse explained the applications of web services.

▪ **Expert Lecture on "Android Application Development"**
An Expert Lecture on "Andriod Application Development" is delivered by Mr. Dnyanesh Kalal from Riya Infotech, Mumbai on 31st Mar 2018 for FY and SYMCA students. Students understood Android application architecture and appropriate tools for android development.

▪ **Expert Lecture on "Entrepreneurship: Challenges and Opportunities"**
An Expert Lecture on "Entrepreneurship: Challenges and Oppourtunities" is delivered by Mr. Soham Garud from Diggmeup, Nashik on 24th Mar 2018 for FYMCA students. Students cultivated the spirit of entrepreneurship and expanded the ways of employment through entrepreneurship as a choice of occupation.

▪ **Expert Lecture on "Cloud Computing"**
Expert Lecture on "Cloud Computing" is delivered by Mr. Harish Pawar from Capgemini, Mumbai on 17th Mar 2018 for SYMCA students. Students got familiar with cloud computing services.

▪ **Industrial Visit organized for students**
Industrial Visit to Datamatics Global Services, Nashik conducted on 13th March 2018. 41 students of FYMCA along with two faculties Mrs. Poonam G. Fegade and Mrs. Prachi V. Dorle visited Datamatics.



▪ **Training & Placement**

Sr. No.	Name of Company	No. of Students Placed
1	Aress Software	4
2	Winjit Technologies	3
3	Abracadabra	1

▪ **Aptitude Training Program**
10 Days Aptitude Training Program for SYMCA students was organized during 8th Mar 2018 to 18th Mar 2018. The objective of training program was to prepare students for placements. Topics covered in

the programme were Group Discussion, Arithmetic Aptitude, Data Interpretation, Data Sufficiency. Trainer for the programme was Mr Harshad Pethe. 27 students participated in the training programme.

■ **Achievements/Awards/ Prizes won by staff and students**

- Dr. V. C. Bagal received Award for Achieving PhD Degree by "Ishwar Nagari Sahakari Patsanstha & Meeradaya Social & Educational Society Nashik", in the memory of Dnyanjyoti Savitraibai Phule Birth Anniversary on 3rd Jan 2018.
- Dr. V. C. Bagal received "Outstanding Women in Science" Award by Venus International Foundation on 3rd March 2018.
- The students Eliyas Pasha and Nambodari from FYMCA class won Third Prize in Singing Competition held at NDMVP's IMRT College, Nashik on 28 Feb 2018.

■ **Seminar / Workshop / Training attended by Staff**

- Prof. R. A. Gangurde attended Three Days faculty Development Programme on "FDP on "Machine Learning & its Applications" organized by Dept. of Information Technology, MET's Institute of Engineering, Nashik during 21st Dec to 23rd Dec 2017.
- Prof. M. E. Maniyar attended Two Days National level Seminar on "Industrial IoT: opportunities and challenges" during 11th & 12th Jan 2018.

- Prof. P. S. Pimple participated in Five Days STTP on "Database and Integration Of services with Other Applications" during 2nd to 6th Jan 2018.
- Dr. V. C. Bagal and Prof. M. R. Sonar participated in Faculty Development Program conducted by Nalanda Business Associates during 9th Feb and 10th Feb 2018. The FDP was focused on Stress Management.
- Prof. P. S. Pimple attended "New Faculty Training Program" conducted by IQAC cell, KKWIEER during 5th to 7th Feb 2018.
- Prof. P. A. Rawal attended Workshop on "IOT : Applications and Scope" organized by Department of IT, KKWIEER during 26th and 27th Feb 2018.
- Prof. M. R. Sonar, Prof. A. L. Rane and Prof. P. S. Pimple attended workshop on "MATLAB and Simulink" organized by Department of E&TC, KKWIEER on 20th Feb 2018.

■ **Abstracts of Paper presented**

Prediction model based on Market Basket Analysis using a joint approach of Artificial Neural Network and Genetic Algorithm

Prof. R. A. Gangurde presented paper at 6th World Conference on Applied Science, Engineering and Technology (WCASET-18) at Goa on 2nd - 3rd January 2018.

Abstract: Market Basket Analysis (MBA) is one of the data mining tools that are used for discovering co-existence or co-occurrence of categorical observations. Market Basket Analysis is useful in recognizing purchasing patterns of customers in

relational market from the relevant transactional data. However, it is still very difficult to get valuable information hidden in large databases. The proposed approach uses a novel technique to reduce such difficulties. Initially, the proposed work uses the Extended HCleaner Algorithm which efficiently removes noise from the datasets. Then, the preprocessed datasets are converted in to the ANN model. From the ANN model, the weights between the products are determined. The products which contain the maximum weights are further sent to the *Apriori* algorithm, where it calculates combinations of the products. The result acquired from the *Apriori* algorithm is sent to next level of predictive model. It contains the two components: (1) similarity calculation through cosine similarity technique and (2) genetic algorithm. The cosine similarity is used to find the association between products which is further sent to the genetic algorithm to find the best solution through optimization. The results acquired from the proposed work are compared with the existing techniques based on the precision, recall, F-Measure, and time. It is shown that the proposed work provides more accurate prediction than the existing techniques.

■ Abstracts of Paper Published

Optimizing Predictive Modelling of Customer Behaviour Using Simulated Annealing

Prof. R. A. Gangurde published paper in International Journal of Pure and Applied Mathematics, Volume 118, No. 5 (2018)

Abstract: Customer behaviour modelling is an important data mining approach for making operational and strategic decisions. Market Basket Analysis (MBA) is used to determine products that customers purchase together. Knowing the products that a customer will shop as a group is very helpful to a retailer. The business can use this information in predicting sales at the right time, at the right place, and for the right customer. Moreover, Company Marketers can use the basket analysis results to determine new products to serve their existing loyal customers. In the present paper, Genetic Algorithm is used to determine the population of solutions, which consumes more time to produce a solution. In this paper, it is proposed to use the Extended HCleaner Algorithm to remove noisy data from the datasets. The pre-processed dataset is then submitted to an ANN model. From the ANN model, weights of the products are determined by an association. The products which get maximum weights are sent to *Apriori* algorithm, which calculates the optimal combination of the products. The solution of *Apriori* algorithm is sent to next level of the predictive model. It contains two stages: (1) Similarity calculation through cosine similarity technique and (2) Simulated annealing. The cosine similarity is used to obtain the association between products which is further sent to simulated annealing algorithm to find the single solution through association rules. Simulated annealing is used to minimize the response time. It is more effective than the existing system.

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