

A FACULTY DEVELOPMENT PROGRAMME
ON
DATA MINING



16TH JANUARY TO 20TH JANUARY 2012

Organized By

Maharashtra Cosmopolitan Education Society's

Allana Institute of Management Sciences, Pune

Gate no. 2, Azam campus, 2390-B, K. B. Hidayatullah Road,

Near Golibar Maidan, Camp, Pune

www.aimspune.org



About AIMS:

Maharashtra Cosmopolitan Education Society's Allana Institute of Management Sciences (AIMS) at Azam campus, Camp, Pune was established in the year 1998. The Institute has approval of Government of Maharashtra, All India Council for Technical Education (AICTE) New Delhi, and is affiliated to the University of Pune. It is situated in the heart of Pune Cantonment area.

Under the umbrella of MCE Society, the prime goal of AIMS is to produce professionals in the area of Information Technology and Business; to equip the young generation in order to enable them to solve the technical and business issues emerging out of global environment. We continuously seek opportunities for improvement, to meet and exceed the needs of our students through a process of self-evaluation and continuous improvement. At AIMS, we are committed to qualitative education to eligible persons, thus creating human assets and enhancing intellectual capital. Our Technical and Managerial training provides self-dependability, innovativeness, sociability, sensitivity and adherence to excellence.

To achieve these objectives the institute has developed state of the art, well-equipped modern Computer Laboratories, Internet, Intranet, Wi-Fi connectivity, Spacious Conference halls, E-library, Seminar Halls and ICT enabled facilities. The Institute offers full time Postgraduate courses viz. Masters in Computer Application (MCA), Masters in Business Administration (MBA) and Masters in Computer Management (MCM).



Objective of the FDP

This faculty development program is intended to provide opportunity for teachers employed in AICTE, UGC approved Institutions for teaching and upgrading their knowledge in the areas of Data mining and Data warehousing. This program will be very useful for those who are involve in teaching Data mining and Data warehousing at U.G/P.G level. This will also provide a basic platform for a faculty who is willing to carry out research in Data mining and Data warehousing. The fundamental concepts of Data mining and Data warehousing will be introduced. However, our main focus will be on Data mining based on the M.Sc. (Comp. Science) and M.C.A syllabus of University of Pune. This FDP will provide exposure to the participants about using tools like WEKA, SPSS etc.

About FDP:

- ◇ A series of tutorials with adequate hands on will be presented on real life scenarios.
- ◇ Experts from industry and academics will guide the faculties.
- ◇ Printed Course Material with ISBN will be given

Theme: Data Mining

Data mining is a promising field in which research and development activities are flourishing. It is also a emerging field with vast and unexplored territories. *Data mining* deals with large amount of data which allows you to find the useful hidden patterns and knowledge discovery in data. It allows Businessmen, Managers, Medical practitioners, farmers, Bioinformatics and other professionals to make proactive, knowledge-driven decisions.

Resource Persons:

- ◇ **Dr. H. S. Acharya**
Professor AIMS Pune. Ph.D. (IIT Kanpur), National Fellow (IASRI, New Delhi.), Research Guide (SIU & SRTMU), More than 30 years of experience Teaching, Research & Consultancy.
- ◇ **Dr. S. C. Shirwaikar**
Associate Professor and the Head Department of Computer Science at Nowrosjee Wadia College, Pune. also Ph.D. Guide, University of Pune.
- ◇ **Dr. Roshan Kazi**
Professor & Head MBA Program at AIMS Pune. Post Doctoral fellow at IIM Indore. Research Guide in Management & Trainer in SPSS, More than 15 years of experience Teaching, Research & Consultancy.

Resource Persons:

◇ **Dr. Pravin Metkewar**

Associate Professor at SISR. Ph.D. (Computer Science), 13 yrs of experience in Teaching, Research & Industry (Zensar technologies).

◇ **Prof. Jawed S. Khan**

Associate Professor, Head MCA Program AIMS Pune. More than 13 years of experience Teaching, Research & Consultancy at National and International Universities, colleges & Institutes.

The panel of tutors is made up of very experienced professionals, Research Guides, and Teachers.

Program Schedule:

Day	Time	Event	Topics
Day 1	Morning session	Inauguration and registration	
		Tea Break	
		Theory	Introduction: Machine Learning and Data Mining
		Lunch Break	
	Afternoon Session	Hands on	Handling data using Excel Pivot table or Open Office Data Pilot, Flat data base with Facts and Dimensions (Simple Star Schema)
		Tea Break	
Hands on (Continue...)		Data cube, Slicing, Dicing, rolling, drilling	
Day 2	Morning session	Theory	Association Rule Mining Apriori Algorithm
		Tea break	
		Hands on	Association Mining Apriori Algorithm
		Lunch Break	
	Afternoon Session	Theory	Association mining –FP Tree algorithm
		Hands on	Association tools in WEKA
Day 3	Morning session	Theory	Classification-Decision Tree Learning
		Tea break	
		Hands on	Classification tools in WEKA
		Lunch Break	
	Afternoon Session	Theory	Naive Bayes classifier
		Hands on	Classification tools in WEKA
Day 4	Morning session	Theory	Clustering (Unsupervised learning) K-mean algorithm
		Tea break	
		Hands on	clustering in WEKA
		Lunch Break	
	Afternoon Session	Theory	Hierarchical clustering algorithms
		Hands on	Clustering tool in WEKA
Day 5	Morning session	Theory	Predictive Data Mining-Linear & Nonlinear regression
		Tea break	
		Hands on	Linear & Non linear regression (Excel / Open office/SPSS)
		Lunch Break	
	Afternoon Session	Theory	Text Mining , Web mining , Image Mining overview
		Valedictory function	

Who should attend?

- ◇ The training is basically Faculty Development Program targeted at Teachers engaged in teaching list of courses as in table below.
- ◇ The young faculty engaged in UG/PG teaching with background in Data Bases who are interested in taking up research
- ◇ Faculties of other discipline interested in learning Data Mining.
- ◇ Research Scholars Registered for M..Phil., Ph.D., M.Tech.

Course Code	Course Title	Offered By	Program Name
CS 203 (New)	Data Mining and Data Warehousing	University of Pune	MSc (CS) Sem III
504 MCA)	Data Warehousing and Data Mining	University of Pune	MCA (Comm) Sem V
IT 34	Advanced Data Management System	University of Pune	MCA (Mgmt) Sem III
DMW	Data Mining and Warehousing	COEP, Pune	M.Tech. (CSE) SEMII
K30601	Machine Learning and Data Mining	BHARATI VID- YA PEETH UNIVER- SITY, PUNE	M.Tech (CSE/IT) SEM III
ST 34(A)	Data Mining	University of Pune	M.Sc. (statistics) Sem III
MIM-405	Data Mining & Warehousing	University of Pune	M.Sc. Tech (IM with CA) Sem IV
CS-504	Data Warehousing and Mining	University of Pune	M.C.A. (Science faculty) Sem V
SC-103	ADVANCED DATABASE MANAGE- MENT CONCEPTS	University of Pune	M.Sc. (Scientific Computing) Sem I
510112 C	Data Warehousing and Data Mining	University of Pune	M.E. (CS) sem IV
514409	Advance Trends in Database Systems	University of Pune	M.E (IT) Sem II
510309	High Performance Database Systems	University of Pune	M.E. Computer (Computer Net- works) Sem II
MINE-002	Data Mining Techniques	I2IT, Pune	M.Tech ST
313	Data Warehousing and Data Mining	Symbiosis Intl. Univ., Pune	M.Sc. (CA)

Venue:

MCA Department, Allana Institute of Management Sciences, Pune

Registration Fees:

Regular	Individual	Rs 2000*
Discounted	Institutional (Min 2, Max 3)	Rs 1500/* per Nominee
Research Scholars	Institutional	Rs 1500/* per Nominee

(*Includes breakfast, Lunch, Session tea and study material).

Note:

- ◇ Limited seats on first come first serve basis.
- ◇ **Last date for registration: 30 December 2011.**

Our Patrons:

Hon. Mr. P.A. Inamdar
Hon. Mrs. Abeda Inamdar

President, M.C.E. Society, Pune
Vice-President, M.C.E. Society

Organizing Committee:

Prof. R. Ganesan
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Dr. H. S. Acharya
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Dr. H. S. Acharya

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Note: Please submit your queries to workshop@aimspune.org

Registration Form:

MCEs's

Allana Institute of Management Sciences, Pune

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Ph.No. (020)26440491, Fax:(020)26449824

www.aimspune.org**Faculty Development Program on Data Mining**

16th – 20th January 2012

Registration Form / Online

Name: _____ Designation: _____

Institute: _____

Mailing Address: _____

Phone No.: _____ Mobile No.: _____

Email: _____

Accommodation Required? **Yes/No****Payment Details**

Amount in Rs. _____

DD or cheque should be in the favor of **MCE Society's Allana Institute of Management Sciences, Pune**

DD / Cheque No. _____ Dated: / / 20

Name of the Drawee Bank: _____ Branch: _____

For Online Payment: Name of the Bank: **Bank of Maharashtra** Branch: **Shankar Sheth Road, Pune**

A/c No: 60055311663 MICR Code: 411014040 IFS Code: MAHB0000335

If the payment is by net banking please clearly mention the Transaction Id here: _____

Form should be sent to: **Prof Jawed S. Khan, Organizer FDP on Data Mining, Allana Institute of Mgmt. Sci., Pune**Or by email to: workshop@aimspune.org

Signature of the Participant: _____

Registration Fees:

Regular	Individual	Rs. 2000/-*
Discounted	Institutional (Min 2, Max 3)	Rs. 1500/-* per Nominee
Research Scholars	Institutional	Rs. 1500/* per Nominee

(*Includes breakfast, Lunch, Session tea and study material).