

Overview

The Center for eLearning and Training (C-eLT) was established by Professors Nitin Patel and Cyrus Mehta, both founders of Cytel Inc., Cambridge, MA. Cytel Inc. is world famous for its specialized statistical software products and custom based statistical solutions generated from high-end-research in Applied Statistics.

C-eLT grew out of Professor Nitin Patel's enhanced web based curriculum with online tutoring in statistics at the MIT Sloan School of Management. The phenomenal success of the class and the popularity of the tutoring component spurred the creation of C-eLT.

C-eLT provides high quality personalized online and offline one-on-one eTutoring in Maths/Stats, Sciences, Accounting/Finance, English, and Teaching Assistant support to Professors in academic institutions primarily in the USA. C-eLT also provides consulting services as "Subject Matter Experts" to first-rate publishers.

C-eLT draws human capital from a rich pool of experienced postgraduate faculty at the University of Pune and other well known universities in India. C-eLT enforces strict quality assurance norms and to this end, the company provides continuous knowledge upgrade on web based training and tutoring to enhance the capabilities of the faculty for under-graduate and graduate students in US and Europe.

- **Six years plus** experience in eLearning
- **High-speed** Connectivity
- **Built-in** redundancies
- **Infrastructural facilities for custom based training in specific pedagogy**
- **Alliance with local Universities and Colleges**
- **Stringent Quality Assurance Systems**
- **Local availability of expert coaching, facilities in English Language / Accent Training for Tutors as required**

Services & Performance

C-eLT helps Flagship Enterprises, International Organizations and Academic Institutions develop and deliver high-quality eLearning and online and offline eTutoring.

Approximately 250,000 students, researchers, professionals and executives in the US & Europe have benefited from C-eLT's eTutoring in Maths/Stats, Sciences, Accounting/Finance and English.

- eTutoring to K-12 and higher education in Mathematics, Statistics, Chemistry, Physics, Biology, Accounting, Finance, and Writing Lab. tutoring in English.
- Teaching Assistance (TA) support for Graduate level Quantitative Techniques and Accounting Courses in MBA programs at Maastricht School of Management.
- Teaching Assistant (TA) support to American Professors and Authors who lead on-line courses on University and College eLearning platforms.
- Grading exams and research papers to free Professors for more teaching time.
- Consulting in Subject Matter Expertise (SME) and Analytical Services for post graduate students, content developers, business executives, research fellows and professionals in Applied Statistics, Mathematics and Sciences.
- Corporate Managers and Executives get help to resolve specific questions & issues related to their work in Applied Statistics and Data Analysis & Interpretations.

CAPABILITIES

Virtual Rooms use WebEx Communications and other high technology platforms feature:

Whiteboard clients and tutors draw, and upload documents and images on a shared virtual whiteboard.

Text Chat with a tutor in real time.

Upload a spreadsheet for tutors to review and directly annotate on whiteboard.

Application Sharing allows tutors and clients to exchange in real time a topic or procedure.

File Transfer enables clients to send in their questions and tutors to pass on explanations.

C-eLT's end-users show steady growth . . .

YEAR	MATH/STATS	SCIENCES	ENGLISH	TOTAL HOURS
2006	17500	7500	3000	28000
2007	22500	9500	4000	36000

eTutoring on Statistics.com

C-eLT provides eTutoring and TA services on the following courses:

1. **Introductory:** Beginners Introductory Course, Beginners Survey, Introductory Statistics-I, Introductory Statistics-II, Introductory Statistics-III and Non-normal Data.
2. **Business:** Choice Modeling, Data Mining I – Introductory, Data Mining II – Unsupervised Learning, Decision Trees, National Income, Natural Language Processing, Risk Analysis and Time Series.
3. **Stat Methods:** Bayesian Statistics, Bootstrap Methods, Categorical Data Analysis, Count Data Analysis, Engineering Statistics, Logistic Regression, Missing data Analysis, Mixed Model, Nonparametric Testing, Randomization, Regression Analysis, Cluster Analysis, Re-sampling Methods and Sample Size Determination.
4. **Life Science:** Biostatistics, Adaptive Trials, Clinical Trails, Clinical Trials with Bayesian, Epidemiology I - Fundamentals, Epidemiology II - Bias, Epidemiology III - Analysis, Meta Analysis, Micro-array Analysis and Survival Analysis.
5. **Engineering:** Design of Experiments, Design of Experiments – Advanced and Statistical Process Control.
6. **Environment:** Environmental Statistics, Environmental Sampling and Geo-statistics.
7. **Social Science:** Census, Choice Modeling, Facets, Generalized Linear Modeling, Longitudinal Data Analysis, Rasch Analysis, Sequential Estimating Methods, Sequential Estimating Methods – Advanced, Standardizes Tests, Survey Analysis and Survey Design.

CLIENT TESTIMONIALS

"C-eLT's e-learning service has given us expert statistics tutors and timely service. We use them in our general online tutoring service, and in support of our short courses. Without C-eLT, it would be impossible for us to offer these services." **Peter Bruce, President of Statistics.com**

Undergraduate Online Tutoring

1. **Mathematics**
 - a. **Contemporary & College Mathematics:** Logic Theory; Number Theory; Equation & Inequalities, Functions & Graphs, Optimization, Mathematical Systems & Matrices and Probability & Statistics.
 - b. **Algebra:** Arithmetic & Geometric Sequences; Indices & Surds; Quadratic Equations; Linear Inequalities; Linear Programming & Simplex Method; Area & Volume of different Shapes; Simultaneous Equations; Permutations & Combinations; Simple & Compound Interests and Future & Present Value.
 - c. **Calculus:** Limits & their Properties; Differentiation & Applications; Differential Equations; Integration Techniques & Applications; Logarithmic, Exponential & other Transcendental Functions; Infinite Series; Conics, Parametric Equations & Polar Coordinates and Vectors & Geometry of Space.
 - d. **Geometry & Trigonometry:** Points, Lines; Planes & Angles; Area & Volume Measurements; Networks & Non-Euclidian Geometry; Radian & Degree Measures; Sine, Cosine & other Trigonometric Functions; Vectors in Plane; Complex Numbers and Exponential & Logarithmic Functions.
2. **Statistics:** Organizing & Exploring Data; Centers, Spreads, Averages & Variations; Probability Theory & Distributions; Binomial & Normal Distribution; Sampling Theory & Distributions; Estimation & Hypothesis Testing; Confidence Intervals; Regression & Correlation; Chi-Square & F Distribution; Discrete Probability Models and Analysis of Variance & Multiple Regression.
3. **Physics:** Measurement; Vectors; Force & Motion; Kinetic/Potential Energy; Linear & Angular Momentum; Rotational Motion; Equilibrium & Elasticity; Gravitation; Fluids; Heat & Thermodynamics and Light, Electricity & Magnetism.
4. **Chemistry:** Measurement; Atomic Structure; Chemical Formulae & Equations; Chemical Reactions; Thermo Chemistry; Electron Configurations; Bonding; States of Matter; Solubility; Acids & Bases; Equilibria; Covalent Bonding; Lewis Acid-Base Theory; Structure, Properties & Reactions of Alkenes, Alkynes, Cycloalkanes, Aromatic Hydrocarbons, Alkyl Halides, Alcohols, Ethers, Epoxides, Aldehydes, Ketones & Amines; Electrophilic/Nucleophilic Addition & Substitution; Fischer Projections, Enantiomers, Diastereomers and Optical Activity.
5. **Biology:** Chemistry of Life; Cell Theory & Genetics; Evolution History & Biological Diversity; Plant/Animal Form, Functions & Ecology; Support & Movement (Skin, Skeletal & Muscular Systems) ; Integration & Coordination (Nervous & Endocrine System) ; Transport (Blood, Cardiovascular & Lymphatic Systems) ; Absorption & Excretion (Digestive System, Nutrition, Respiratory & Urinary System) and Human Life Cycle Reproductive System (Genetics & Genomics).
6. **Writing Laboratory for English:** Evaluating development and relevance of content, ideas, organization, research on the topic, writing skills, and mechanical issues like grammar and usage while providing suggestions for further revisions for undergraduate student writers. Examples and models are used rather than correction and editing.

Graduate Online Tutoring

Management Accounting: Managerial Accounting & Business; Cost Cost-Volume Relationship; Measurement of Cost Behavior; Cost management & Activity Based Costing; Decision making in Marketing & Production; Budget & Variance Analysis; Capital Budgeting and Product Costing.

Financial Accounting: Accounting Language of Business; Measuring Income to assess Performance; Recording Transactions; Using Financial Statements; Inventories & Cost of Goods Sold; Depreciation; Liabilities & Interest; Accounting of Bonds & Leases; Cash Flows; Shareholders Equity and Financial Statement Analysis.

Quantitative Techniques: Decision Trees & Decision Analysis; Discrete Probability; Covariance & Correlation; Joint Probability Distribution & Independence; Continuous Probability Distributions & their Applications; Statistical Sampling; Simulation Modeling; Regression Models; Linear, Nonlinear & Discrete Optimization and Art of Decision Modeling.

“C-eLT’s e-Tutors provided invaluable support to the participants enrolled in our custom-MBA Programme as part of a project in Zambia. Their expert help and deft individual guidance in Quantitative Techniques, Management Accounting, Financial Accounting, and Financial Management immensely helped our participants to understand basic concepts and their applications.” **Dr. Suresh Ankolekar, e-Business Professor and Senior Project Consultant at Maastricht School of Management, The Netherlands**

125,000 eTutoring hours at undergraduate and graduate levels completed during 2003- 2007

End User's Accolades

THANK YOU VERY MUCH!! I am very impressed with your service, response time and the quality of answers. My emails are answered promptly . . . - what a pleasant surprise! John Sotero

You are an excellent mathematician and have aided my pursuit of calculus immensely. Ashley C.

"I would just like to drop you a line at how satisfied I am with your service. This course on line that I am taking which is statistics was brutal. . . I am a completely satisfied customer." I. Medvitz

OK now I understand. You made it look so simple. Thank you so much. Philip Taylor

. . . The last responses were exceptional as usual! I can imagine what it would be like if I had taken stats with you in the first place . . . John Sotero. . .

Your assistance was EXCELLENT. Greatly appreciated!!!!!! Debbie

Again, great work! I like the way you break down the problems and explain them step by step. . . . Talk to you soon! Julio Arias

"I cannot believe I get this! Thank you SO much!" S. Hanson

Thank you very much . . . I understand everything so much better thanks to your very thorough explanations. Kevin Ceryes

"Thank you so much! You have been great! I understand it all!" David Maxwell

CLIENT TESTIMONIES

THE TUTORING PROVIDED IS EXCEPTIONAL! Mary Hughes

"Tutors are worth their weight in GOLD!" S. Maher

"Truly, the best service on the internet. Thank you for your help!" M. Masel

"Thank you soo much, a million thank uuuuuuussss... you are the best" Valerie Tramwell

This is really GREAT! I wish you were my Prof.! Corey Stamatov

C-eLT draws its experts from a rich pool of experienced post-graduate faculty at the University of Pune and other well known universities in India.

From the Press . . .

Hello I need help with my math . . . Concerns about the quality of K-12 education in America and the increased emphasis on standardized tests is driving the tutoring business . . . Improved Internet technology and the ability to tap a vast pool of educated instructors at low cost are crucial ingredients. The New York Times, October 31, 2007.

Online Degree Programs Take Off As More Schools Embrace Web-Based Courses, More Students Log On to Expand Their Education While They Work . . . Online enrollment, including multiple courses taken by a single student, jumped from 1.98 million in 2003 to 2.35 million the following year, accounting for 7 percent of postsecondary education, according to Eduventures, a Boston firm that studies trends in education. Another study, funded by the Alfred P. Sloan Foundation, reports that 65 percent of universities offering face-to-face graduate courses also offer graduate courses online. By early 2008, Eduventures predicts, about one in 10 college students will be enrolled in an online degree program. Washington Post, May 16, 2006.

'India has a pool of very talented and passionate teachers, especially in subjects like math and science. As these subjects are culture-free, it is comparatively less problematic for Indian teachers to teach these subjects,' said a top-level executive at the National Association of Software and Service Companies (NASSCOM). Released on July 9, 2007, 8:00 pm by Info-Resource Communications

K12 Total & Online Enrollment in (2002-2006)¹

Year	Total Enrollment	Annual Total Enrollment Growth Rate	Population taking online courses	Annual Online Enrollment Growth Rate	Online Enrollment as % of Total Enrollment
2002	16,611,710	NA	1,602,970	NA	9.7%
2003	16,900,479	1.7%	1,971,397	23.0%	11.7%
2004	17,272,043	2.2%	2,329,783	18.2%	13.5%
2005	17,428,500	0.9%	3,180,050	36.5%	18.2%
2006	17,647,720	1.3%	3,488,381	9.7%	19.8%

¹ SOURCE: Online Nation: Five Years of Growth in Online Learning (October 2007)

Technical Experts

Anil Gore Ph.D. has 30+ years teaching experience at universities including at Arizona, Penn State, Calgary & Wyoming universities; specialist on '*Statistical Analysis of Non-normal Data* and *Mathematical and Statistical Ecology*. A former Associate Editor in Biometrics and Ecological Statistics, he consults in bio and social sciences .

Suresh Ankolekar Ph.D. has 25+ years in Academia. He developed and delivered a specialized MBA in IT Management for Maastricht School of Management (MsM), The Netherlands. He now leads an eLearning project for Technical and Vocational Education and Entrepreneur Training in Zambia.

Prof. Madhav Kulkarni 30+ years of teaching currently, at University of Pune, India. He coauthored *Common Statistical Tests*, *An Introduction to Statistical Ecology*, *Introduction to Discrete Probability and Probability Distributions* and *100 Data sets for Statistics Education*..

Ranganath Rattihalli Ph.D. has 30 years of teaching experience and currently teaches Statistics at Shivaji University, Kolhapur, India. Dr. Ranganath contributed in several research projects and has written several papers jointly with others.

Shailaja Deshmukh Ph.D. is Associate Professor in Statistics, University of Pune, India. Author on: *Statistical Methods in Micro-array Data Analysis* and *An Introduction to Actuarial Statistics* are in process.

Sudha Purohit Ph.D. is co-author of two books: *Life-Time Data: Statistical Models and Methods & Introduction to Biometry*. She was Head of the Department of Statistics at A. G. College and teaches Statistics at the University of Pune, India.

Sharayu Paranjpe Ph.D. teaches Statistics at the University of Pune, India. A co-author of "A Course in Statistical Ecology" and "Statistical Inference in Saturating Hyperbolic Models," and has also written or co-written dozens of articles in peer-reviewed journals.

T. V. Ramanathan Ph.D. has 14+ years in Teaching and Research projects in India and Botswana. He authored several research papers on Statistical Inference, Time Series, Quality/Reliability Studies & GLM.

C-eLT's Typical Tutor has a Masters degree in Mathematics, Statistics, Biology, Chemistry, Physics, Accounting, Finance or English. At least 2 years of face-to-face teaching at undergraduate level in a university. At least 2 years of experience of online/offline eTutoring in 24 x 7 formats at undergraduate level.

C-eLT's Statistics Consultant has Masters degree or Ph.D. in Statistics. 10 years of under-graduate teaching in a University; counseling on academic & industry projects. Published several research papers and co-authored books. 10 years consulting experience in Applied Statistics in life-social sciences, environmental-ecological studies, medical-biological projects etc. Experienced in handling online courses & software.

Senior Management

Ajay Sathe PGDM, IIM is CEO of Cytel Statistical Software & Services India Pvt. Ltd. Ajay has 20 years' experience in the IT industry in various roles. He has been instrumental in starting Cytel's Pune operations in 1998. He has had extensive international exposure in technical and business development functions. Prior to his current assignment, Ajay co-founded Spectrum Business Support Limited, and served on its board as Technical Director for thirteen years. Apart from custom development projects, he led Spectrum's technical team to create pioneering information products such as JURIX - a comprehensive Law Information resource with intelligent full-text search. In his first job at CMC Limited, Ajay worked on an optimization project involving scheduling of helicopters for offshore oilrigs. Ajay studied Electronics Engineering at Banaras Hindu University and Management at Indian Institute of Management, Ahmedabad.

Mayank Shah, a Chartered Accountant, has over 29 years' experience as Consultant, Executive and Academician in the field of MIS and BI applications for business. Mayank is Executive Director of TechKnit IT Enabled Services Pvt.Ltd. leading C-BIA activities and is a Visiting Professor at S. P. Jain Institute of Management &

Research. He heads C-BIA, the Center for Business Intelligence and Analytics.

Shrikant Athavale Mechanical and Industrial Engineer, is Executive Director of TechKnit IT Enabled Services Pvt.Ltd. and spearheads the new initiatives in IT enabled services, especially in eLearning. Shrikant has nearly 38 years of experience in a variety of industries and businesses. Starting his career in Industrial Engineering function in a Manufacturing set up, he rose to become Vice President of Operations at Indian Card Clothing Company Ltd, a high-technology engineering company in Pune. In the meanwhile, he served in managerial functions in several reputed companies like Crompton Greaves, Rallis, Siemens, Murphy and Johnson & Johnson. Shrikant studied Mechanical Engineering and Industrial Engineering from Bombay University / NITIE, and later added qualifications in Statistical Quality Control, Operations Research and Financial Management. He is qualified as a Lead Assessor for ISO 9000, and contributes on executive councils of several professional associations of Engineers and Managers. He has traveled extensively in Europe for techno-commercial business transactions and has substantial contributions in strategic turnaround of a business in UK.