

➤ **ONE DAY LECTURE WORKSHOP ON CHEMINFORMATICS**

3.2:2
workshops

Venue: Aurora's Auditorium, Aurora's Degree & PG College, Chikkadpally.

Convenor: Ms. Srilatha S

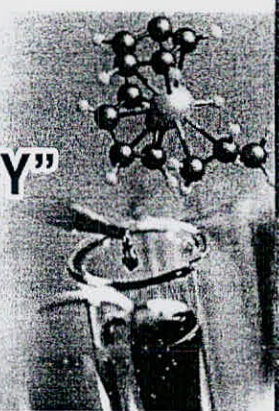
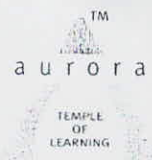
Target Audience: Faculty of Chemistry of various colleges and M.Sc chemistry students in twin cities.

Date: 27th March, 2015.

Objective: To facilitate the faculty and students to interact with eminent personalities in the field of research and development.

- This one day lecture workshop was essentially an interactive session.
- The invited speakers were from IIIT and Schrodinger software technologies, Hyderabad.
- Prof. Abhijit Mitra
 - An eminent Scientist, whose area of work is Chemistry – Bioinformatics – Drug Discoveries.
 - His talk was highly interesting.
 - The focus was on "How does the Software is applied to solve Chemistry problems?"
- Dr. Divya Priya Kumar U, Assoc. Professor & Head, CCNSB, IIIT - Hyderabad
 - An eminent Scientist who gave his life and time towards research in Chemistry
 - His field is "Cheminformatics".
 - The talk was on molecules and complexes exhibiting magnetic properties in solution.
- Dr. Raghu Rangaswamy, Vice-President, Schrodinger Software solutions, Hyderabad
 - His talk was highly motivational to the students and the faculty.
 - He insisted on the importance of the information Technology in various fields of science and especially in the field of synthetic chemistry.
- Dr. Ravi Kumar, Senior Application Scientist, Schrodinger Software Solutions, Hyderabad.
 - The talk was mainly on the different softwares developed in recent times.
 - He insisted on the application of the different kinds of softwares to analyse, screen and choose different molecules.
 - He highlighted on the industrial and research applications.


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SCIENCE ACADEMIES' LECTURE WORKSHOP ON

"MODERN CHEMISTRY & BIOLOGY"

Sponsored by
Indian Academy of Science, Indian National Science Academy and
National Academy of Science

At: Indian Institute of Chemical Technology (IICT)
Tarnaka, Hyderabad.

Registrations
9:00 am to 9:30 am

PROGRAMME SCHEDULE

20th January 2017 (Friday)

21st January 2017 (Saturday)

MORNING SESSION

10:30 am to 1:30 pm (Lectures - 1 & 2)

Dr. D. Balasubramanian
Ph.D (Columbia) FNA, FASc, FNAsc, FTWAS, FAAAS
Director of Research, LV Prasad Eye Institute
Hyderabad

Topic:

MORNING SESSION

10:00 am to 1:30 pm (Lectures - 1 & 2)

Dr. Arabinda Chaudhuri
Chief Scientist
Indian Institute of Chemical Technology (IICT)
Hyderabad.

Topic:
Fighting Cancer with Fatty Bubbles

TEA BREAK : 11:30 am to 11:45 pm

TEA BREAK : 11:30 am to 11:45 pm

LUNCH BREAK : 1:30 pm to 2:30 pm

LUNCH BREAK : 1:30 pm to 2:30 pm



AFTERNOON SESSION

2:30 pm to 5:00 pm (Lectures - 1 & 2)

Dr. Rajan Sankaranarayanan
Chief Scientist
Centre for Cellular and Molecular Biology (CCMB)
Hyderabad

Topic:
X-Ray vision on Molecules of Life

AFTERNOON SESSION

2:30 pm to 5:00 pm (Lectures - 1 & 2)

Dr. Abani K Bhuyan
Professor of Chemistry
University of Hyderabad
Hyderabad

Topic:
Interface of Physical Chemistry and Biology

TEA BREAK : 3:30 pm to 3:45 pm

TEA BREAK : 3:30 pm to 3:45 pm

svp: Srilatha S @ 9100000527 / Vanamala P @ 9100000510

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Student Coordinators:

- P.Priyanka, M.E.Cs 3A
- Shiv Kumar Joshi, M.E.Cs 3A

WORK SHOP 2015-16**ON****Linear Circuit Design and Development****(In collaboration with PGP Electronics Ltd)**

Introduction: The Work Shop is planned for students of B.Sc., first year with electronics or physics as their optional subjects. It is designed such that students learn subject in detail apart from their regular curriculum. The work shop provides more practical knowledge to the students in designing electrical circuits.

Title : Linear Circuit Design and Development

Duration: 1 Day, on 19th November, 2015

Target audience: B.Sc M.E.Cs and M.P.Cs First year students

Objective :


- To bridge the gap between theory and practical knowledge.
- To empower the students with real time applications.

Session 1**Introduction**

- Statement of Problem
- Task Assignment

Session 2**In depth design analysis**

- Design of circuit using theoretical knowledge
- AC Voltage review
- DC Voltage review
- Requirement of converter



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DEPARTMENT OF MATHEMATICS
REPORT OF WORKSHOP ON
ROLE OF MATHEMATICS IN SECURITY APPLICATIONS

About the department:

The department of mathematics is one of the oldest departments of the college. The faculty members of the department are passionate teachers. The department contributes by conducting various activities towards making learning more enjoyable and practical. We organize mini conferences, Lecture series, seminars, workshops and guest lectures. The department takes pride in its contribution towards the success of its students who are pursuing higher education at premier institutes like IISc, IIT etc. The department leaves no stone unturned to make education process a beautiful experience.

About the Event:

Department of mathematics has a tradition of conducting workshops to inculcate interest and research attitude towards mathematics among students and faculty. In this regard workshop on the Role of Mathematics in security applications is proposed. Without mathematics there would be no Internet & internet security. Mathematics is doing its best to try to address questions on online transactions, monitoring of internet by the third party, and about worms, viruses with the goal of making on-line transactions totally secure and making the email environment an unalloyed pleasurable addiction. The mathematical tools which are making all this possible are ones that in previous times some thought inapplicable. New techniques are being found for manufacturing faster and smaller chips. The Internet draws heavily on a wide variety of mathematical tools ranging from data compression and error compression techniques, methods for routing messages, and security issues. In the present workshop the participants get an opportunity to enhance their knowledge in these areas from experts in this field from academics, Research institutes and industry .

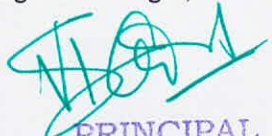
Objective:

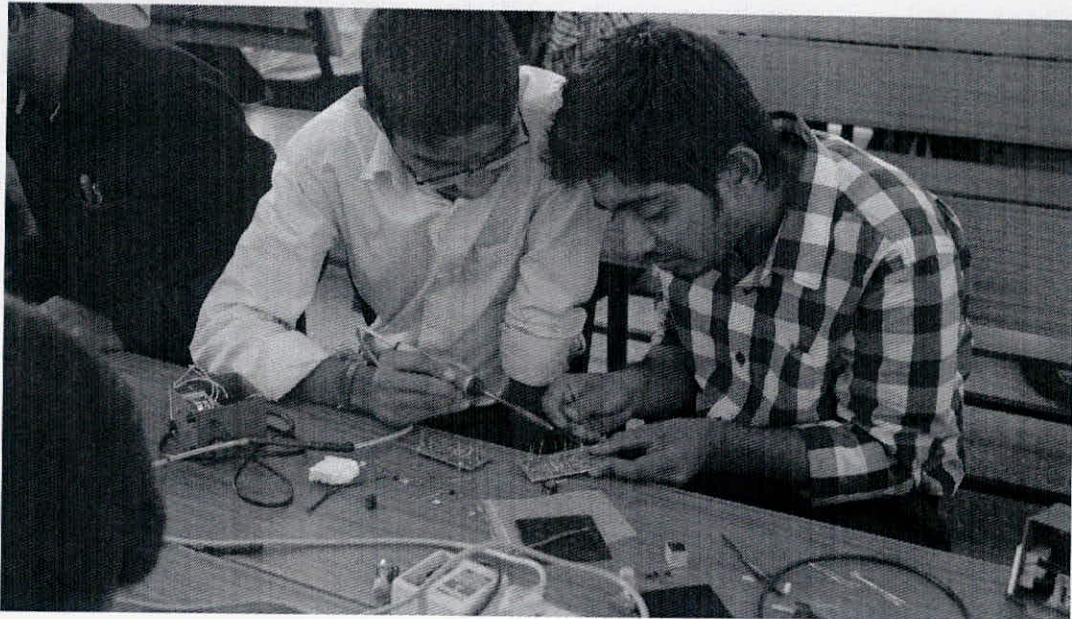
To orient and motivate the students towards research in Mathematics ..

Date of the Event: 21-03-2017

Venue : Aurora's Auditorium ,Chikkadpally.

Speakers : 1. Prof M.V.Ramana Murthy, Chairman BOS, Dept of Mathematics OU
 2. Prof S.Sunder , Dept of Mathematics, IIT Chennai
 3. Mr. Srikanth Nivarthi, Program Manager,


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WORK SHOP 2014-15

ON

Robotic

(Conducted at NSIC Hyderabad Center)

Introduction: The Work Shop is planned for students of B.Sc., Final year with electronics as their optional subjects. It is designed such that students learn subject in detail apart from their regular curriculum. The work shop provides more practical knowledge to the students in Embedded System.

Title : Robotics

Duration : 1 Day, on 3rd January 2015

Target audience: B.Sc M.E.Cs Final year students

Objective :

- To bridge the gap between theory and practical knowledge.
- To empower the students with real time applications.

Session 1


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Report on the Faculty Development Program (FDP)
 “Innovative Methods of Teaching Statistics”
 on 22nd August 2015 (Saturday)
 Aurora’s Degree & PG College, Chikkadpally, Hyderabad.

The 3rd FDP was organized by Department of Statistics. The FDP on “Innovative Methods of Teaching Statistics” is conducted across the twin cities (Hyderabad & Secunderabad) to all the Academicians, Research Scholars Post Graduate Students. It is designed to familiarize the participants to understand how to frame the probability modeling & Statistical Inferences. The FDP program received an overwhelming response with the participants from various colleges/Institutions across the twin cities.

About the Department:

We are happy to inform that the department of statistics has been upgraded from UG level to PG level in the academic year 2009-2010, offering MSc statistics course, which is the first affiliated college under Osmania University. The department is grooming 540 students at UG level and 70 students at PG level and is also providing research projects and Internship Programs for UG and PG students.

In order to share the experiences among the UG and PG teaching fraternity of statistics in twin cities, the department of statistics is planning to hold a Faculty Development Program.

Report on FDP:

On August 22nd 2015, (Saturday), FDP on “Innovative Methods of Teaching Statistics” was organized by the Department of Statistics, held at Aurora’s Degree & PG College, Chikkadpally, Hyderabad. The program of morning session started with the registrations process at 9:00 am. The FDP started with the presence of our college Vice-Principal Shri K.Satyanarayana, Convener Dr. Raghunadh Acharya, co-convenor Prof.Lakshmi Manga. At 10:30 am the FDP started with a presentation by Prof.R.J.R.Swamy, Professor at Narsee Monjee Institute of Management Studies, Tarnaka, Hyderabad, gave a bird’s eye view on the topic “Need of Probability Modeling in Decision Making”. Enlightenment on approaches to various probability concepts & modeling of probability was done. Questions were asked by the participants

- How to fit a model?
- Real life examples of probability models?



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Department of Statistics
Two-day workshop on
“Challenges & Opportunities in DATA SCIENCES”

A two-day workshop on data sciences was conducted to prepare key skills required for 21st century Statisticians in advanced analytics & predictive modeling.

The objectives of the workshop :

- Data exploration & Visualization
- Grasping the fundamentals behind statistical modeling
- Acquiring the skills on the best tools for predictive modeling.
- Analyzing data using statistical software's (SPSS & R- Software)

Dates : 14-3-2017 & 15-3-2017

Time : 9.00 a. m to 5 p. m

Target Audience : PG Statistics students /Scholars/Faculty

14-3-2017

Session 1: “Data Exploration and Visualization through Case Studies”

Prof. C. Raghavendra Rao, Dept. of CIS , HCU, Hyderabad.

Session 2: “Statistical Applications for Decision Making by using R”

Dr. M. Venu Gopal Rao, General Manager, Juxt Smart Mandatory Solutions, Hyderabad.

15-3-2017

Session 3: “Role of Supervised Learning for Predictive Analysis”

Prof. A.L.N.Murthy , Indian Statistical Institute, Hyderabad.

Session 4: “Multiple Regression and Factor Analysis with case studies”

Prof. V. V. Hara Gopal, Dept. of Statistics OU, Hyderabad.

No. of participants : 75

The programme started with the introduction to workshop by the anchor Ms. Lahari(MSC final yr)on the importance of DATA SCIENCES in today's world, Guest Principal Mr.Vishwanadham Bulusu, Prof.C. Raghavendra Rao, Prof.Lakshmi Manga Mr.Ankamma Rao, Hod, department of statistics were invited, followed by a prayer song.

- Principal addressed the participants



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WORK SHOP 2014-15**ON****Digital Circuit Design and Development****(In collaboration with PGP Electronics Ltd)**

Introduction: The Work Shop is planned for students of B.Sc., first year with electronics or physics as their optional subjects. It is designed such that students learn subject in detail apart from their regular curriculum. The work shop provides more practical knowledge to the students in designing electrical circuits.

Title : Digital Circuit Design and Development

Duration : 1 Day, on 31st October, 2014

Target audience: B.Sc M.E.Cs and M.P.Cs First year students

Objective :

- To bridge the gap between theory and practical knowledge.
- To empower the students with real time applications.

Session 1**Introduction**

- Statement of Problem
- Task Assignment

Session 2**In depth design analysis**

- Design of circuit using theoretical knowledge
- AC Voltage review
- DC Voltage review
- Requirement of converter
- Types of rectifier
- Choosing the correct rectifier
- Design of Filter

Session 3**In depth design analysis Continued**

- Time base generator
- Astable Multivibrator design
- Digital electronics - 14 stage binary counter
- Feedback circuit
- Visual Indicators Design



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