



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

Accredited (3rd Cycle) with 'A' Grade by NAAC
(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI - 620 020



PG & RESEARCH DEPARTMENT OF MATHEMATICS

MATHEMATICS ASSOCIATION

&

Dr. A.P.J. ABDUL KALAM CLUB

(Affiliated to Vigyan Prasar Network of Science Clubs)
Club ID: VP-TN0056

cordially invite you all to

A Three Day Workshop on Fundamentals of Probability Theory and

Detection Estimation Theory

(under DBT Star College Scheme)

at 9.30 a.m. from 06.10.2022 to 08.10.2022 at Hussainudeen Hall

In the presence of

Janab. M. J. Jamal Mohamed Bilal, President
Dr. A. K. Khaja Nazeemudeen, Secretary & Correspondent
Hajee. M.J. Jamal Mohamed, Treasurer
Dr.K.Abdus Samad, Assistant Secretary
Dr. K. N. Abdul Kader Nihal, Member & Hon. Director

Welcome Address : Dr.A.Mohamed Ismayil, Associate Professor of Mathematics

Presidential Address : **Dr. S. Ismail Mohideen**
Principal

Introduction of the Chief Guest: Dr.S.Abdul Saleem, Associate Professor of Comp. Sci.

Resource Person : **Dr. E. G. RAJAN**
Chairman, Pentagram Group of Companies
(India, UK, USA & Canada)
(An Illustrious Alumnus)



Felicitations :

Dr. A. Mohamed Ibraheem
Vice Principal

Dr. M.Mohamed Sihabudeen
Additional Vice Principal

Dr. K. N. Mohamed Fazil
Director-Hostel Administration

Ms. J.Hajira Fathima
Director-Women Hostel

Dr. R.Jahir Hussain
Head (i/c), Dept. of Mathematics

Vote of Thanks : Dr. S.Vaaheedha Kfatheen, Assistant Professor of Comp. Sci.

Grace the occasion with your Glorious presence

Workshop Schedule

Date	Forenoon Session: 9.30 a.m. to 12.00 noon	Afternoon Session: 2.30 a.m. to 5.00 p.m.
06.10.2022	<ul style="list-style-type: none">• Probability Basics• Independence and Bernoulli Trials	<ul style="list-style-type: none">• Random Variables• Binomial Random Variable Applications• Conditional Probability Density Function and Stirling's Formula
07.10.2022	<ul style="list-style-type: none">• Function of a Random Variable• Mean, Variance, Moments and Characteristic Functions• Two Random Variables	<ul style="list-style-type: none">• One Function of Two Random Variables• Two Functions of Two Random Variables• Joint Moments and Joint Characteristic Functions
08.10.2022	<ul style="list-style-type: none">• Conditional Density Functions and Conditional Expected Values• Principles of Parameter Estimation• The Weak Law and the Strong Law of Large numbers	<ul style="list-style-type: none">• Stochastic Processes Fundamentals• Crime Prediction Support System Using Detection Estimation Theory

Workshop Resource Person Prof. Dr. E. G. Rajan B.Sc., D.M.I.T., M.E., PhD, FIE is the Founder President of the Pentagram Research Centre (P) Ltd., Hyderabad, India. He is an Electronics Engineer and a Professor of Signal Processing having about 42 years of experience in teaching, research and administration. He has a number of publications to his credit. He has been a professional member of ACM and an editor of the Journal of AMSE, Royal Academy of Doctors, Barcelona, Spain. He received his Ph.D degree in Electrical Engineering, (Signal and Image Processing), from Indian Institute of Technology (IIT), Kanpur. On November 15,2015, he was awarded the prestigious Dr.APJ Abdul Kalam Gold Medal for his life time achievement in Teaching, Research, Industrial Development and Corporate Social Responsibility.

