

## THREE – DAY WORKSHOP ON

# “MATLAB”

Organized by: Department of Mathematics & Statistics

11<sup>th</sup> – 13<sup>th</sup> September, 2019

### INAUGURAL



**Dr. V. Narayana Rao, Principal addressing the gathering**



**Theme of the Workshop by Sri M. Venkateswara Rao, Head, Dept. of Mathematics**



**Inviting the Resource Person by Smt. V. Manjula, Co-Convenor, Workshop**



**Dr. E. Vargil Kumar, Asst. Prof., Dept. of EEE, Gudlavalleru Eng. College, Gudlavalleru addressing the students**

## KEYNOTE ADDRESS



**About Technological Developments in Mathematics by Dr. E. Vargil Kumar, Asst. Prof., Dept. of EEE, Gudlavalleru Eng. College, Gudlavalleru**



**Participants at the Programme**



# Day - I - Session





Day -II - Session





**VALEDICTORY – 13/09/2019**



**Dr. V. Narayana Rao, Principal being honoured with a bouquet**



**Dr. E. Vargil Kumar, Asst. Prof., Dept. of EEE, Gudlavalleru Eng. College, Gudlavalleru honoured with a bouquet**



**Dr. K. Naveen Kumar, Vice – Principal honoured with a bouquet**



**Sri M. Venkateswara Rao, Head, Dept. of Mathematics honoured with a bouquet**



**Speech by Dr. V. Narayana Rao, Principal**



**Sri M. Venkateswara Rao, Head, Dept. of Mathematics addressing the students**





**Valedictory speech by Dr. E. Vargil Kumar**



**Participants at the Valedictory**



**Feedback from Participants**





**Felicitation to Dr. E. Vargil Kumar by Departmental Staff**



## **THREE – DAY WORKSHOP ON**

# **“MATLAB”**

**Organized by: Department of Mathematics & Statistics**

**11<sup>th</sup> – 13<sup>th</sup> September, 2019**

A Three Day Workshop on MATLAB was held on 11<sup>th</sup> to 13<sup>th</sup> September, 2019 at KBN College, Vijayawada, Andhra Pradesh organized by the Department of Mathematics and Statistics.

Dr. E. Virgil Kumar Associate Professor, Gudlavalleru Engineering College was the Resource person. Undergraduate and Postgraduate students of seven colleges, including KBN were the participants of this Workshop. Secretary & Correspondent Sri T. Srinivas, Principal Dr. V. Narayana Rao, Vice- Principal Dr. K. Naveen Kumar, Convenor & Head, Dept. of Mathematics & Statistics Sri M. Venkateswara Rao, Co-Convenor Smt. V. Manjula, & Smt. Ch. Radhika, Lecturer in Statistics, attended the workshop.

### **TECHNICAL SESSION - DAY-1 – 11<sup>th</sup> SEPTEMBER 2019**

The three day workshop started with a brief inaugural ceremony with prayer song, by the students of Mathematics and Statistics. The opening remarks of the workshop were delivered by Dr. V. Narayana Rao, Principal. The keynote address was given by the resource person of the workshop, Dr. E. Virgil Kumar. He mentioned in his address, that technological developments takes place with mathematical knowledge which can be gained through workshops like these. He viewed that it will enhance the analytical thinking of the students. Dr. V. Narayana Rao articulated that those who achieve expertise in mathematical applications are likely to excel in other fields of sciences too. Dr. Naveen Kumar addressed the gathering that the sole purpose of conducting this workshop is to update the students about the mathematical developments.



After the inaugural function a brief introductory lecture on MATLAB was delivered by Dr. E. Virgil Kumar. Then all the dignitaries including participants enjoyed with tea and snacks. The main technical session with hands on practice started at 10.45 A.M.

Session I provides an overview of MATLAB. In the first lecture the Resource Person introduced the basic commands of MATLAB, the MATLAB Environment, Overview of the User Interface, Command Window and all Desktop basics. In the second lecture Basic Arithmetic, Basic Mathematical Definitions were covered. This Session dealt with arithmetic operations followed by mathematical functions.

### **TECHNICAL SESSION - II - DAY-2-12<sup>th</sup> SEPTEMBER, 2019**

The technical session started at 8.30am. In Forenoon Session, he explained branching statements, Array, indexing, matrix operations etc. In this session he covered simple calculations using Arithmetic operations, vector and matrix operations. The important topic of complex numbers is covered in post lunch. Basic Calculus, Differentiation and Integration were explained. Basics of Mathematical and Statistical calculations are practiced in detail.

### **TECHNICAL SESSION – III-DAY-3-13<sup>th</sup> SEPTEMBER 2019**

The third session started at 8.30 am, he covered plotting commands and graphical operations in this session. Students practiced plotting styles, multiple plots, etc. thus a long chapter is devoted to plotting various Functions and Data. Two-Dimensional Plots, plotting multiple graphs in the same plot, Histograms, polar plots etc.

The workshop ended with a valedictory ceremony which happened between 12.30-1.30pm. Students from various colleges expressed their views about the workshop. The president of the function Dr. V. Narayana Rao

expressed his happiness over the program. He congratulated all the participants and also promised to arrange such programs in future. In the convener report Mr. M.V.Rao, HoD said that 138 students participated in this workshop from various local colleges and KBN itself. By giving their feedback students expressed their satisfaction over this program. Later certificates and study materials were distributed to the participants. The material presented is very easy and simple to understand, written in a gentle manner. Finally the program ended with National anthem

## **INVITATION**



### **INVITATION**

You are cordially invited to the Inauguration of

## **“THREE DAY WORKSHOP ON MATLAB”**

On Wednesday, 11<sup>th</sup> September, 2019 at 08.00 A.M

Venue: Vivekananda Seminar Hall

Chief Guest

**Prof. E. Vargil Kumar**  
Associate Prof. Gudlavalleru Engineering College, Gudlavalleru

Presided by

**Dr. V. Narayana Rao**  
Principal, KBN College

Organized by  
**Department of Mathematics & Statistics**

ISO 9001:2015

NAAC 'A' GRADE CYCLE 3

**K.B.N. COLLEGE (AUTONOMOUS)**



# BROCHURE

## ORGANISING COMMITTEE

### CHIEF PATRONS

**Sri. V. Hemachandra Rao**

President, KBN College Committee

**Sri. T. Srinivasu**

Secretary & Correspondent, KBN College Committee

### PATRON

**Dr. V. Narayana Rao**, Principal

### CONVENER

**Sri. M. Venkateswara Rao**, M.Sc., M.Phil.

Head Dept. of Mathematics & Statistics

### CO - CONVENER

**Smt. V. Manjula**, M.Sc., M.Phil. (Ph.D)

Senior Lecturer, Dept. of Mathematics

### ADVISORY COMMITTEE

**Mr. E. Vara Prasad**, Vice-Principal

**Dr. K. Naveen Kumar**, Vice-Principal

**Sri P.L. Ramesh**, Director, Academics & Planning

**Dr. V. Subashini**, HOD, Dept. of Zoology

**Smt. P. Bharathi Devi**, IQAC CO-Ordinator

**Dr. P.B. Santya Sree**, HOD, Dept. of Physics

**Dr. K. Krishnaveni**, HOD, Dept. of Chemistry

### Organising Committee

- |                             |                            |
|-----------------------------|----------------------------|
| 1. Smt. M. Lakshmi Prasanna | 6. Smt. K. Vanama Devi     |
| 2. Smt. Ch. Radhika         | 7. Sri. Y. Ravi Babu       |
| 3. Sri. L. Vijay Kumar      | 8. Sri. Ch. Mahinadh       |
| 4. Sri. G. Surya Narayana   | 9. Sri. K. Pradeep Sai     |
| 5. Sri. A.V.S. Prasad       | 10. Sri. V.S.R. Anjaneyulu |



## Three-Day Workshop on Matlab

( Under UGC Autonomous Funds)

On

**11<sup>th</sup> - 13<sup>th</sup> September, 2019**



Organised by  
**Department of Mathematics & Statistics**

VENUE :  
**UG Seminar Hall**

ISO : 9001:2015 NIRF 92<sup>nd</sup> RANK (2017) NAAC 'A' Grade

**K.B.N. COLLEGE**  
(Autonomous)

(Sponsored by S.K.P.V.V. Hindu High Schools Committee)  
A College with Potential for Excellence (CPE-UGC)  
Kothapeta, VIJAYAWADA - 520 001, A.P.  
Website : [www.kbncollege.ac.in](http://www.kbncollege.ac.in)

### ABOUT THE COLLEGE :

Kakaraparti Bhavanarayana College is a vivacious outcome of a century old renowned charitable organization, S.K.P.V.V. Hindu High Schools Society with "Tejaswina Vaidheethamashu" as its motto. Since its inception in 1965, it marked an epoch in innovative education, in an academically and economically impoverished area. The college with heightened social imagination and ardent zeal, shone like a lodestar led innumerable students towards the goal of an illustrious life.

The ever vibrant college grew by leaps and bounds and has evolved with times. It has been adorned with the Autonomous status by the UGC in the year 2010, and received "Best Laboratory", "Best Academic Achievement", "Best Library", "Best NSS Unit" awards. The College has never rested on its laurels and has been relentlessly raising the bar. It has been reaccredited with "A" grade by NAAC in 2013, Certified with ISO 9001-2008 which has been given for Quality Management Standard and accorded with CPE in 2016 by UGC. It has been reaccredited with "A" Grade by NAAC in 2019.

### ABOUT THE DEPARTMENT OF MATHEMATICS & STATISTICS:

Department of Mathematics & Statistics was established in 1965. It is reputed to have been served by distinguished and erudite scholars. The department elevated the stature of KBN College to lofty heights by imparting Mathematics & Statistics skills and it is not an overstatement to say that thousands of students who have been graduating from the college since 1965 feel indebted to the illustrious Mathematics & Statistics teachers for the entire prowess they possess. The department takes pride in the fact that it facilitated many a young student who crossed the portals to become fluent and eloquent in Mathematics & Statistics and secured employment in an effortless manner. The department is the first of its kind in coastal Andhra Pradesh to establish a large Multimedia Language Laboratory for imparting language and speaking skills. The department uses the latest and innovative platforms to help students neutralize their accent. Besides teaching Mathematics & Statistics to the first and second year students of the college, the department also offers Communication and Soft Skills and a Certificate Course in BPO. The learning community has been immensely benefited by these courses. The department is renowned for blending innovative and conventional methods of teaching in addition to organizing Guest Lectures, Seminars and Workshops.

### Invited Speaker :

Dr. E. Virgil Kumar  
Associate Prof. Gudlavalleru Eng. College.

### Participants :

UG & PG Students of Mathematics

### Registration Fee :

For each participant Rs. 100/-

### How to Reach KBN College :

KBN College is located at a distance of about 2 Km from the railway / bus stations. If you choose to travel from bus station to KBN College by bus, take 3.11 and 31 citybus from City Bus Stand platform (beside SBI ATM). There is a bus every 05 minutes. Get down at KBN College bus stop. If you take an auto from the railway/bus station, the ever so honest auto drivers of Vijayawada tend to charge about Rs. 50/- for their service from the railway / bus station to KBN College.

### Contact Persons

Sri. M. Venkateswara Rao, Convener :: Cell : 9701851379  
Smt. V. Manjula, Co-Convener :: Cell : 99482 33772

For any query or submission please send email to [kbnmaths1965@gmail.com](mailto:kbnmaths1965@gmail.com). Please visit our website <http://www.kbncollege.ac.in> time to time for any updates.

$$f(x,y) = \sqrt{x} + \frac{2\sqrt{y}}{2\sqrt{y}} \quad x^2 + 5x^2 + 8x + 4 + \frac{16}{3}$$

$$2 + \frac{dx}{dx} + 2y \frac{dy}{dy} = 2 \quad \vec{\nabla} = \vec{\nabla} \times \vec{r}$$

$$\int_0^{\pi/2} (r \cos \theta + r \sin \theta) d\theta =$$

$$\lim_{x \rightarrow 0} \frac{2 - (-3 - \sqrt{5})}{2}$$

$$\rho = \begin{bmatrix} \cos \varphi & -\sin \varphi & 0 \\ \sin \varphi & \cos \varphi & 0 \\ 0 & 0 & 1 \end{bmatrix} \quad \vec{r} = \frac{dx}{dt} \times \vec{r}$$