

Three – Day Workshop on
'MATLAB'
(Under UGC Autonomous Funds)

28th to 30th April, 2022

Organized by: Department of Mathematics & Statistics

A Three Day Workshop was organized by the Department of Mathematics and Statistics on “MATLAB” with Dr. E.Vargil Kumar, Associate Professor, Department of EEE, Gudlavalleru Engineering College, Gudlavalleru.

Objectives :

- Their main objective is to teach scientific concepts while instilling quantitative thinking in their students.
- To achieve that goal, educators must teach (and students must learn) computational skills and how to use them to express, analyze, and model scientific phenomena.
- MATLAB includes built-in mathematical functions, fundamental to solving scientific problems.
- MATLAB is a high level programming language with an interactive environment for visualisation, numerical computation and programming function.
- It develops the computational codes easily.
- Symbolic computation can be easily done in it.
- Demonstrate Import datasets for analysis, plot datasets.

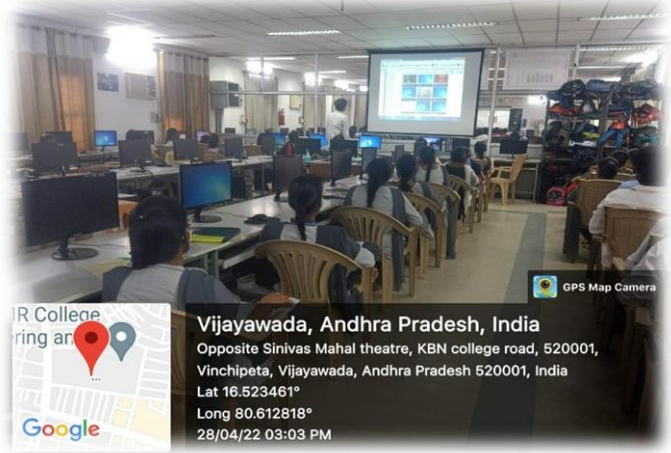
INAUGURAL SESSION



DAY – 1 - SESSION – 1:



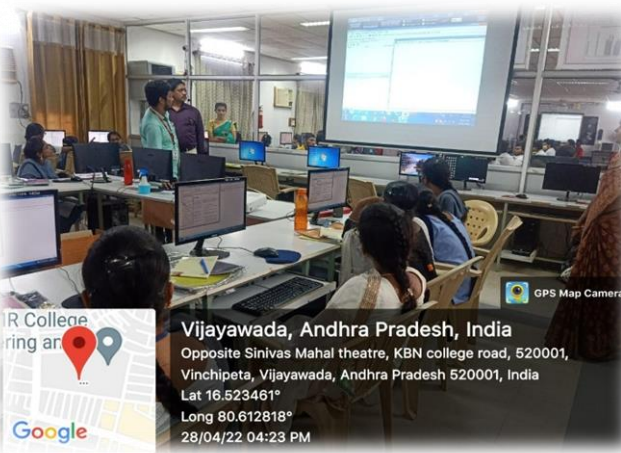
Vijayawada, Andhra Pradesh, India
Opposite Sinivas Mahal theatre, KBN college road, 520001,
Vinchipeta, Vijayawada, Andhra Pradesh 520001, India
Lat 16.523461°
Long 80.612818°
28/04/22 03:04 PM



Vijayawada, Andhra Pradesh, India
Opposite Sinivas Mahal theatre, KBN college road, 520001,
Vinchipeta, Vijayawada, Andhra Pradesh 520001, India
Lat 16.523461°
Long 80.612818°
28/04/22 03:03 PM

In this session the Resource person introduced MATLAB system, 7 levels, advantages, drawbacks, high level of language and its parts also discussed the 5 windows that we have in MATLAB.

DAY – 1- SESSION – 2:



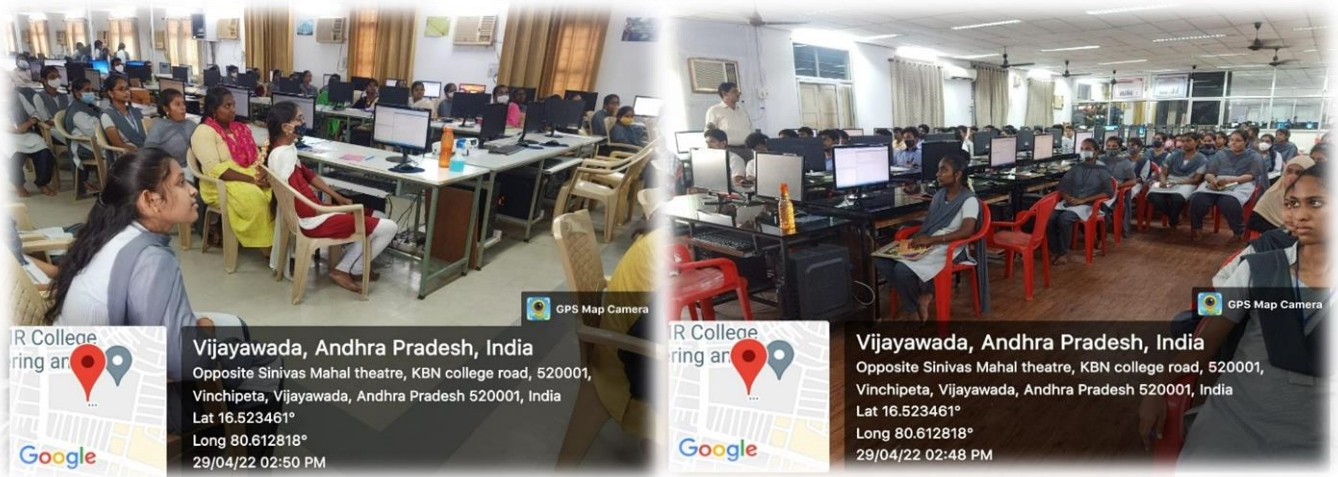
Vijayawada, Andhra Pradesh, India
Opposite Sinivas Mahal theatre, KBN college road, 520001,
Vinchipeta, Vijayawada, Andhra Pradesh 520001, India
Lat 16.523461°
Long 80.612818°
28/04/22 04:23 PM



Vijayawada, Andhra Pradesh, India
Opposite Sinivas Mahal theatre, KBN college road, 520001,
Vinchipeta, Vijayawada, Andhra Pradesh 520001, India
Lat 16.523461°
Long 80.612818°
28/04/22 04:25 PM

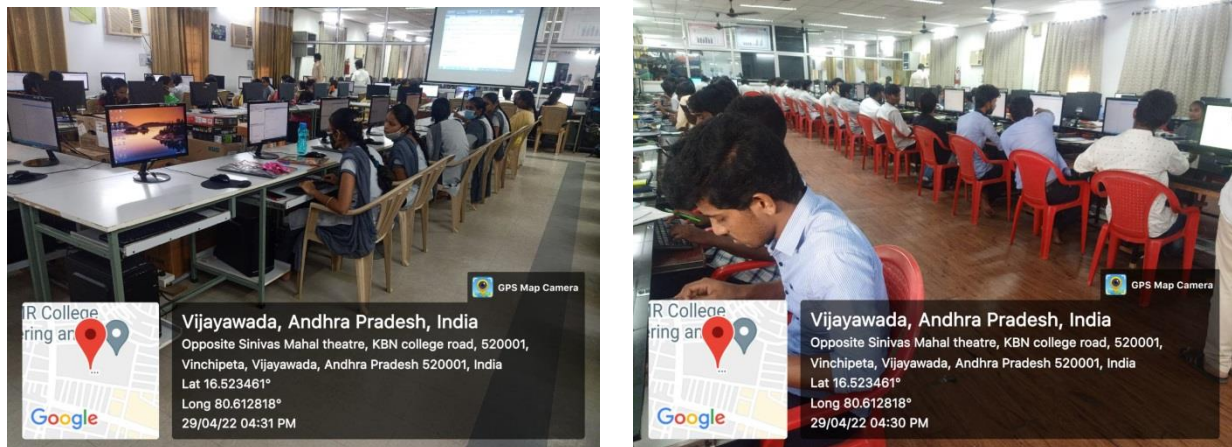
In this session the Resource Person explained about the MATLAB variable names, its display formats, Mfile. He explained each of them with few examples, and guided the students to practice some of the examples in the MATLAB software.

DAY – 2 - SESSION – 3:



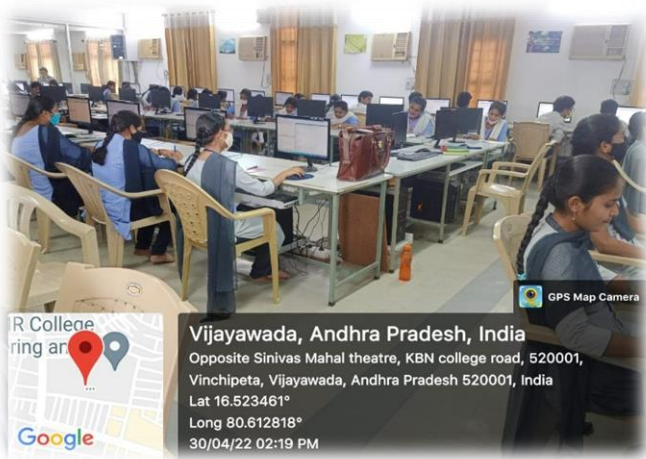
In this session the Resource person explained about Arrays, Creating of 1 Dimensional & 2 Dimensional arrays, The notation of creating a matrix using vectors, How To transpose operators, Changing values , Mathematical expressions using vector elements. And also guided the students to practice some of the examples using MATLAB software.

DAY – 2 - SESSION – 4:



In this session the Resource person explained how to use a colon in addressing arrays, Matrix manipulation, Adding elements to existing variables, Matrix, Deleting elements, Built-in functions for handling arrays, Strings, Solving 3 linear equations.

DAY – 3 - SESSION – 5:



In this session the Resource person explained the Simplification commands, Basic operations, Symbolic expressions, Calculus, Plotting a polynomial, Finding roots. And also guided the students to practice some of the examples using MATLAB software.

DAY – 3 - SESSION – 6:

In this session the Resource person explained about the Plots such as



- Mesh plot
- Surface plot
- Mesh curtain plot
- Circle plots
- Determining the Eigen values & Eigen vectors of a matrix And few basic commands using MATLAB.

- **Outcomes :**

1. Students were able to understand how to use MATLAB for interacting computations
2. Students were able to generate plots and finding eigen values, eigen vectors.
3. They also did few examples as finding root of a polynomial, in creating 1 dimensional & 2 dimensional arrays.
4. They were able to do program scripts & functions using the MATLAB development environment.

Valedictory session:

In this session our principal Dr. V. Narayana Rao, Head of the Department M.L.Prasanna, members of the Department L.Vijay Kumar, G.Suryanarayana, K.Vanama devi, Shaik rahamthulla and other faculty members and also 126 students from K B N College and other Colleges in Vijayawada have participated.



DEPARTMENT OF MATHEMATICS AND STATISTICS

THREE DAY WORKSHOP ON MATLAB

STUDENT FEEDBACK ANALYSIS

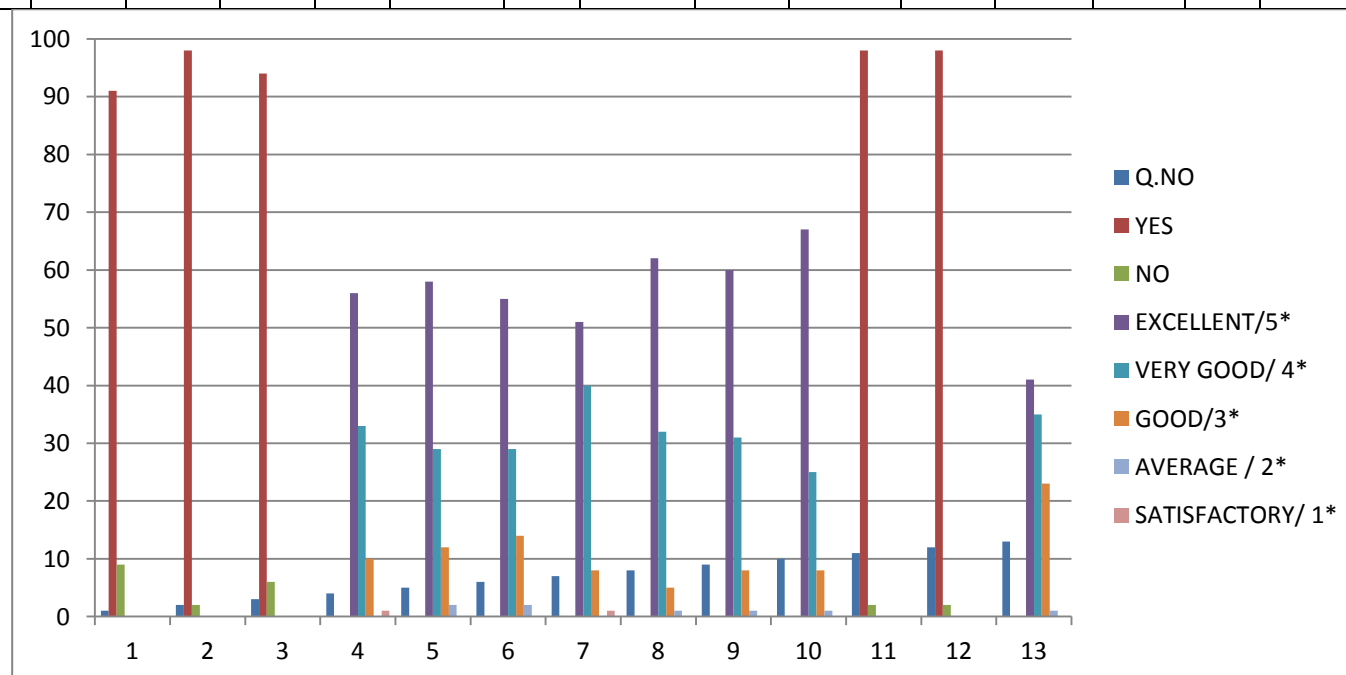
1. Q.NO 1 about the course content interesting, 91% felt it was very interesting and only 9% felt not interested.
2. Q.NO 2 about the course content understandable, 98% felt it was very understandable and only 2% felt it was not understandable.
3. Q.NO 3 regarding the clarity in the content, 94% felt that there is clarity in the content and only 6% felt that there is no clarity in the content.
4. Q.NO 4 regarding the focus of the talk , 56% felt that the focus is excellent, 33% felt that the focus is very good, 10% felt that the focus is good, and only1% felt that the focus is average.
5. Q.NO 5 about the usage of the lecture, 58% felt that the course is very useful, 29% felt that the course is useful, 12% felt that the course is not much useful, and only 2% felt that the course is not at all useful.
6. Q.NO 6 regarding how far the resource person met the expectations, 55% felt that the resource person has met their expectations,29% felt that the resource person has not much met their expectations,14% felt that the resource person didn't met their expectations, and only2% felt that the resource person not at all met their expectations.
7. Q.NO 7 about resource person capturing the attention of the students, 51% felt that the resource person captured their attention,40% felt that the resource person hasn't captured their attention much ,8% felt that the resource person hasn't captured their attention , and only 1% felt that the resource person not at all captured their attention.
8. Q.NO 8 regarding the vocabulary of the resource person, 62% felt that the resource person's vocabulary is excellent, 32% felt that the resource person's vocabulary is very good, 6% felt that the resource person's vocabulary is good , and only 1% felt that the resource person's vocabulary is average.
9. Q.NO 9 about the encouragement from the resource person, 60% felt that the resource person encouraged them very well, 31% felt that the resource person encouraged them well , 8% felt that the resource person hasn't encouraged them, and only 1% felt that the resource person not at all encouraged them .
10. Q.NO 10 regarding resource person's enthusiasm towards the subject ,67% felt that the resource person is very enthusiastic,25% felt that the resource person is enthusiastic,8% felt that the resource person is not much enthusiastic, and only 1% felt that the resource person is not at all enthusiastic.

11. Q.NO 11 regarding the satisfaction of the lecture, 98% felt that they are satisfied with the lecture and only 2% felt that they are not satisfied with the lecture.
12. Q.NO 12 whether the resource person is capable of answering the queries, 98% felt that the resource person is capable and only 2% felt that resource person is not capable.
13. Q.NO 13 regarding the overall impression about the resource person, 41% felt that the resource person is excellent,5% felt that the resource person is very good, 23% felt that the resource person is good, and only 1% felt that the resource person is average.

FEEDBACK ANALYSIS

Analysis of student feedback for the three-day workshop on MATLAB for the year 2021-22. This feedback was obtained from students from various colleges. Size of the sample =126. No. of questions = 14, No. of options for 5 questions = 2 , No. of options for remaining questions =5, Definition: 5 =Excellent, 4 = Very Good, 3 = Good, 2 = Average and 1= Satisfactory.

Q.NO	YES		NO		EXCELLENT/ 5*		VERY GOOD/ 4*		GOOD /3*		AVERAGE/ 2*		POOR/1*	
	R	%	R	%	R	%	R	%	R	%	R	%	R	%
1	115	91	11	9	-	-			-	-	-	-	-	-
2	123	98	3	2	-	-			-	-	-	-	-	-
3	118	94	8	6	-	-			-	-	-	-	-	-
4	-	-	-	-	71	56	42	33	12	10	-	-	1	1
5	-	-	-	-	73	58	36	29	15	12	2	2	-	-
6	-	-	-	-	69	55	37	29	18	14	2	2	-	-
7	-	-	-	-	64	51	51	40	10	8	-	-	1	1
8	-	-	-	-	78	62	40	32	7	5	1	1	-	-
9	-	-	-	-	76	60	39	31	10	8	1	1	-	-
10	-	-	-	-	84	67	31	25	10	8	1	1	-	-
11	124	98	2	2	-	-	-	-	-	-	-	-	-	-
12	124	98	2	2	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	52	41	44	35	29	23	1	1	-	-



గణితంలో పట్టుతో ఉపాధి అవకాశాలు



మాట్లాడుతున్న వర్గీలకుమార్

చిట్టనగర్, న్యూస్టుడే: గణితంలో పట్టు సాధించడం వల్ల అద్భుతాలు సాధించవచ్చని, ఉపాధి అవకాశాలు కూడా ఎన్నో ఉన్నాయని గుడ్లవల్లేరు ఇంజనీరింగ్ కళాశాల గణిత శాస్త్ర అచార్యులు వర్గీలకుమార్ అన్నారు. కొత్త పేట కేటీఎన్ కళాశాల గణిత శాస్త్ర విభాగం ఆధ్వర్యంలో మ్యాట్ లాబ్ పేరుతో మూడు రోజుల పాటు నిర్వహించిన కార్యక్రమాల సోమవారంతో ముగిసింది. ఈ సందర్భంగా ఆయన మాట్లాడుతూ గణిత శాస్త్రంపై లేనిపోని అపోహలు వద్దని, దృష్టి పెడితే ఆ సజ్జెక్టు చాలా సులువని అన్నారు. కళాశాల వైస్ చీఫ్ ప్రొఫెసర్ ఎం. వెంకటేశ్వరరావు, పీఎల్. రమేష్, విభాగాధిపతి లక్ష్మీప్రసన్న, తదితరులు పాల్గొన్నారు.

Date : 03/05/2022 EditionName : ANDHRA PRADESH(AMARAVATI NTR) PageNo : 06

గణితంతో అద్భుతాలు సాధించొచ్చు

- డాక్టర్ వర్గీలకుమార్

ప్రజాశక్తి - వన్ టౌన్ : గణితంలో పట్టు సాధించటం ద్వారా అద్భుతాలు సాధించవచ్చని గుడ్లవల్లేరు ఇంజనీరింగ్ కళాశాల గణిత శాస్త్ర అచార్యులు డాక్టర్ వర్గీలకుమార్ అన్నారు. కాకరపర్తి భావనారాయణ కళాశాల గణిత శాస్త్ర విభాగం ఆధ్వర్యంలో 'మ్యాట్ లాబ్' పేరుతో మూడు రోజుల పాటు నిర్వహించిన వర్క్ షాప్ సోమవారం ముగిసింది. ఈ సందర్భంగా ముగింపు సభలో డాక్టర్ వర్గీలకుమార్ మాట్లాడుతూ గణిత శాస్త్రం పట్ల చాలా మంది లేనిపోని అపోహలతో దూరంగా ఉంటారన్నారు. గణితంలో పట్టు సాధించటం ద్వారా అనేక రంగాల్లో విజయం సాధించవచ్చన్నారు. పలు అవకాశాలను సైతం అందిస్తున్నారన్నారు. సభకు అధ్యక్షత వహించిన కళాశాల ప్రిన్సిపాల్ డాక్టర్ పీ



నారాయణరావు మాట్లాడుతూ విద్యార్థులకు వారివారి రంగాల్లో పట్టు సాధించేందుకు వీలుగా పలు కార్యక్రమాలను ఏర్పాటు చేస్తామన్నారు. వాటిని సద్వినియోగం చేసుకోవాలని సూచించారు. కార్యక్రమంలో వైస్ ప్రిన్సిపాల్ డాక్టర్ ఎం వెంకటేశ్వరరావు, పీఎల్ రమేష్ విభాగాధిపతి ఎం లక్ష్మీప్రసన్న తదితరులు పాల్గొన్నారు.

గణితంలో పట్టు సాధిస్తే అద్భుతాలు

వన్ టౌన్ (విజయవాడ పశ్చిమ): గణితంలో పట్టు సాధించటం ద్వారా అద్భుతాలు సాధించవచ్చని గుడ్లవల్లేరు ఇంజనీరింగ్ కళాశాల గణిత శాస్త్ర అచార్యులు డాక్టర్ వర్గీలకుమార్ తెలిపారు. కేటీఎన్ కళాశాల గణిత శాస్త్ర విభాగం ఆధ్వర్యంలో మ్యాట్ లాబ్ పేరుతో మూడు రోజుల పాటు నిర్వహించిన వర్క్ షాప్ సోమవారం ముగిసింది. ఈ సందర్భంగా ముగింపు సభలో డాక్టర్ వర్గీలకుమార్ మాట్లాడుతూ గణిత శాస్త్రం పట్ల చాలా మంది లేనిపోని అపోహలతో దూరంగా ఉంటారని పేర్కొన్నారు. గణితంలో పట్టు సాధించటం ద్వారా అనేక రంగాల్లో విజయం సాధించవచ్చని తెలిపారు. పలు అవకాశాలను సైతం అందిస్తున్నారన్నారు. సభకు అధ్యక్షత వహించిన కళాశాల ప్రిన్సిపాల్ డాక్టర్ వి.నారాయణరావు మాట్లాడుతూ విద్యార్థులకు వారివారి రంగాల్లో పట్టు సాధించేందుకు వీలుగా పలు కార్యక్రమాలను ఏర్పాటు చేస్తామన్నారు. వైస్ ప్రిన్సిపాల్ డాక్టర్ ఎం. వెంకటేశ్వరరావు, పీఎల్ రమేష్ విభాగాధిపతి ఎం. లక్ష్మీప్రసన్న తదితరులు పాల్గొన్నారు.



BROCHURE

ORGANISING COMMITTEE

CHIEF PATRONS

Sri. T. Seshalah

President, KBN College Committee

Sri. T. Srinivasu

Secretary & Correspondent, KBN College Committee

PATRON

Dr. V. Narayana Rao, Principal

CONVENER

Smt. M. Lakshmi Prasanna, M.Sc., M.Phil.

Head Dept. of Mathematics & Statistics

ADVISORY COMMITTEE

Mr. P.L. Ramesh, Vice-Principal

Dr. M. Venkateswara Rao, Vice-Principal

Dr. K. Krishnaveni, IQAC CO-Ordinator

Sri P. Ravindra, HOD, Dept. of Computers

Dr. H. Narendra Kuamr, HOD, Dept. of English

Organising Committee

- | | |
|---------------------------|-----------------------------|
| 1. Sri. G. Surya Narayana | 6. Sri Sk. Rahamthulla |
| 2. Smt. K. Vanama Devi | 7. Smt. S. Jaya Bharati |
| 3. Sri. L. Vijay Kumar | 8. Miss. P. Kalma Begum |
| 4. Smt. Ch. Radhika | 9. Miss. G. Sita Ratnam |
| 5. Sri. Ch. Mahinadh | 10. Miss. Ch. Shalini |
| | 11. Smt. Ch. Ratna Sowjanya |



Three-Day Workshop on Matlab

**SKPVV
INSTITUTIONS**
Educating the Community
Since 1967

(Under UGC Autonomous Funds)

On

28th - 30th April, 2022



Organised by
Department of Mathematics & Statistics

VENUE :

UG Seminar Hall

ISO : 9001:2015

NAAC 'A' Grade Cycle 3

K.B.N. COLLEGE (AUTONOMOUS)

Sponsored by S.K.P.V.V. Hindu High Schools Committee Kothapeta, VIJAYAWADA - 520 001.
A College with Potential for Excellence (CPE) All India 92nd Rank in NIRF by MHRD (2017)
Recognized as Band Performer in ARIIA by Ministry of Education, Govt. of India
Website : 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 Vadheethamasthu" 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 benefitted 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. Gudlavalluru Eng. College.

Participants :

UG & PG Students of Mathematics

Registration Fee :

For each participant Rs. 200/-

Registration Link : <https://forms.gle/MquP6w2CzN3WY5aA8>

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 citibus 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

Smt. M. Lakshmi Prasanna, Convener :: Cell : 89193 57712

For any query or submission please send email to kbmask1965@gmail.com. Please visit our website <http://www.kbncollege.ac.in> time to time for any updates.

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

$$2x \frac{dx}{dz} + 2y \frac{dy}{dz} = z \quad \vec{v} = \vec{\omega} \times \vec{r}$$

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

$$\lim_{z \rightarrow 0} z - \left(\frac{-3-18}{z} \right)^2 \quad \vec{v} = \frac{d\vec{r}}{dt} \times \vec{r}$$

$$R = \begin{bmatrix} \cos \theta & -\sin \theta & 0 \\ \sin \theta & \cos \theta & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

INVITATION



K.B.N. COLLEGE (AUTONOMOUS)

Sponsored by S.K.P.V.V. Hindu High Schools' Committee

Kothapeta, Vijayawada - 520001.

A College with Potential for Excellence (UGC-CPE) All India 92nd Rank in NIRF by MHRD (2017)

Recognized as Band 'Performer' in ARIIA by Ministry of Education, Govt. of India

INVITATION

Department of Mathematics & Statistics

Cordially invites you to the INAUGURAL SESSION of
THREE - DAY WORKSHOP ON



(28th-30th April, 2022)

On 28th April, 2022 @ 2:00 PM

Resource Person

Dr. E. Vargil Kumar

Asso. Prof., Dept. of EEE, Gudlavalleru Engineering College, Gudlavalleru

Presided by

Dr. V. Narayana Rao

Principal, K.B.N. College