

From

09th February 2023

Mr. D. Vasu Babu

Co-ordinator

Department of Mathematics

University College of Arts and Science

Krishna University

Machilipatnam-521004

To

The Principal

University College of Arts and Science

Krishna University

Machilipatnam-521004

(THROUGH PROPER CHANNEL)

Respected Sir,

Sub: Request permission to conduct a Value Added Course to the M.Sc-Mathematics 1st semester students admitted in the 2022-23 academic year-Reg.

With reference to the above subject cited, I request you to grant permission to conduct two weeks Value Added Course (VAC) to the M.Sc-Mathematics 1st semester students admitted in the 2022-23 academic year on "**Mathematical Software**" (22MATVACMS) by the Department of Mathematics, Krishna University, Machilipatnam. The proposed course work is scheduled from 13-02-2023 to 28-02-2023

I, **Mr. D. Vasu Babu** is the Co-ordinator for this Value Added Course. The details of the Value Added Course are enclosed with this letter.

A brief report including the Student enrollment, attendance will be submitted to your office immediately after the completion of the Value Added Course.

In this connection, I request you to permit me to start the above said Value Added Course.

Thanking You,

Yours Sincerely

(Mr. D. Vasu Babu)

Forwarded
D.V.
DEPARTMENT OF MATHEMATICS
UNIVERSITY COLLEGE OF ARTS & SCIENCE
KRISHNA UNIVERSITY
MACHILIPATNAM - 521 003, A.P.

** Enclosure: Details of Value Added Course

Department of Mathematics
University College of Arts and Science
Krishna University, Machilipatnam-521004
Proposed Value Added Course (VAC) to M.Sc Mathematics 1st semester
Students of the 2022-23 Admitted batch

Duration: 2 weeks

Date of commencement: 13-02-2023 to 28-02-2023

Name of the Course Co-ordinator: Mr. D.Vasu Babu

Name of the Course: **Mathematical Software**

Course Code: **22MATVACMS**

Mode of Classes: **Offline**

Objectives of the Course:

- Wolf Mathematica is a technical computing solution that provides businesses of all size with tools for image processing, data visualization and theoretic experiments.
- This course provides an introduction to Mathematica and deals with symbolic computation, manipulating matrices, plotting functions and handling various type of data

Modules of the Course:

1. Core Language: Language Overview – Expressions
2. Rules & Patterns – Procedural Programming – Parallel Programming
3. Package Development – Syntax – Units – Lists – Variables
4. Functions – Functional Programming – String Manipulation
5. External Operations – Tuning & debugging.
6. Mathematics and Algorithm: Mathematical functions – Formula manipulation
7. Matrices & Linear Algebra – calculus – Polynomial Algebra
8. Graphs & Networks – Logic & Boolean Algebra – Control Systems
9. Mathematical Data – Number & Precision
10. Equation Solving – Optimization – Probability & Statistics
11. Discrete Math – Number Theory – Computational Systems – Finance
12. Visualization and graphics : Data visualization – Charting – Statistical visualization
13. Gauges – Drawing & interactivity – computational Geometry – Sound & Function visualization
14. Dynamic visualization – Financial visualization – Options & Styling
15. Symbolic Graphics language – Importing & Exporting.

Outcomes :

- 1) Learns about the syntax and functions that are mainly useful for running of the software.
- 2) Usage of the Geometrical representations in the software programs

KRISHNA UNIVERSITY

Prof. Y .A.V. A. S. N. Maruthi

Principal

University College of Arts and Science

Krishna University

Machilipatnam-521 004



Mobile: 9885243126

Email: kru.principal@gmail.com

Dt. 09.02.2023

CIRCULAR

A two week value added course entitled “**Mathematical Software**” (22MATVACMS) has been introduced by the Department of Mathematics for the Academic Year 2022-23 for Ist Semester M.Sc. Mathematics students. All the Ist Semester M.Sc. Mathematics students are here by informed that to enrol / register for the value added course conducted by the department from 13-02-2023 to 28-02-2023 in offline mode and gets information of course details from the Department of Mathematics.


PRINCIPAL

Copy to:
Department of Mathematics
File.



KRISHNA UNIVERSITY

**UNIVERSITY COLLEGE OF ARTS AND SCIENCE
MACHILIPATNAM-521004**

**TWO WEEK VALUE ADDED COURSE ON
“Mathematical Software”
13-02-2023 to 28-02-2023**

**Organized by
Department of Mathematics**

**Chief Patron
Prof.Y.A.V.A.S.N.Maruthi
Principal
UCAS, Krishna University**

**Patron
Prof.Y.A.V.A.S.N.Maruthi
Head In-charge
Department of Mathematics**

**Course Coordinator
Mr. D. Vasu Babu
Assistant professor
Department of Mathematics
Krishna University**

KRISHNA UNIVERSITY



UNIVERSITY COLLEGE OF ARTS AND SCIENCE

MACHILIPATNAM-521004

Department of Mathematics

Two weeks Value Added Course on "Mathematical Software" (22MATVAC01) to the M.Sc. Mathematics students of academic year 2022-23 From 13-02-2023 to 28-02-2023

Student Enrollment Form

Name of the Coordinator: Mr. D. Vasu Babu

Date: 13-02-2023

Designation: Assistant professor (Ad-hoc)

S.No.	Name of the Student	Regd.No.	Signature of the Student
1	Ch. Uma Devi	Y22MAT101001	Ch. Uma Devi
2	G. Bhanu Prakash	Y22MAT101002	G. Bhanu Prakash
3	G. Ramya	Y22MAT101003	G. Ramya
4	J. Kameswari	Y22MAT101004	J. Kameswari
5	J. Anitha	Y22MAT101005	J. Anitha
6	K. Lakshmi Gayatri	Y22MAT101006	K. L. Gayatri
7	K. Bhavana	Y22MAT101007	K. Bhavana
8	L. Bala Bhargavi	Y22MAT101008	L. Bala Bhargavi
9	M. Mamatha	Y22MAT101009	M. MAMATHA
10	V Naga Harsritha	Y22MAT101012	V. N. Harsritha


Signature of the Coordinator



KRISHNA UNIVERSITY
UNIVERSITY COLLEGE OF ARTS AND SCIENCES
MACHILIPATNAM-521004
Department of Mathematics

Submission of a brief report on two weeks value added course
“Mathematical Software” (22MATVACMS) to the Ist Semester students
admitted in the academic year 2022-23 from 13-02-2023 to 28-02-2023 in
online and offline mode

Date: 28-02-2023

Name of the course coordinator:
Mrs. D. Vasu Babu
Department of Mathematics
Phone Number: 9030481520
Email: vasudasari27@gmail.com

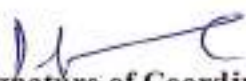
Name of the Resource person:
Dr. R. Edukondala Nayak
Department of Mathematics
Phone number: 9985641665
Email: reknayak@gmail.com

Brief Report:-

One of the most significant developments in mathematics has been the introduction of mathematical software. Examples, theorem proofs, and the discovery of novel mathematical phenomena are all accomplished via mathematical software systems. However, new methods and systems are frequently developed as a result of mathematical research. The papers given during the First International Congress of Mathematical Software, which sought to conduct a comprehensive analysis of mathematical software systems from numerous academic fields, are collected in this collection. Over a hundred mathematical software systems are covered in the book. An overview of the state of mathematical software and algorithmic arts is provided to readers.

The Value Added Course was successful with 10 students and the valuable classes of Resource Person Dr. R. Edukondala Nayak on **“Mathematical Software”** for two weeks from 13-02-2023 to 28-02-2023. The students have expressed their happiness through the feedback forms and asked to conduct this sort of Value added course in future.


Signature of Resource person


Signature of Coordinator

KRISHNA UNIVERSITY



UNIVERSITY COLLEGE OF ARTS AND SCIENCE- MACHILIPATNAM-521004

Department of Mathematics

Two weeks Value Added Course on "Mathematical Software" (22MATVACMS) to the M.Sc. Mathematics students of academic year 2022-23 from 13-02-2023 to 28-02-2023

Attendance Sheet

S. No	Name of the Student	Regd. No.	Dates														Total	
			13/02	14/02	15/02	16/02	17/02	19/02	20/02	21/02	22/02	23/02	24/02	25/02	26/02	27/02		28/02
1	Ch. Uma Devi	Y22MAT101001	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	14
2	G. B. Prakash	Y22MAT101002	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	14
3	G. Ramya	Y22MAT101003	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15
4	J. Kameswari	Y22MAT101004	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15
5	J. Anitha	Y22MAT101005	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15
6	K. L. Gayatri	Y22MAT101006	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	14
7	K. Bhavana	Y22MAT101007	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15
8	L. Bala Bhargavi	Y22MAT101008	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	14
9	M. Mamatha	Y22MAT101009	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15
10	V. N. Harshitha	Y22MAT101012	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15

Signature of the Programme Coordinator

Signature of the Resource Person



KRISHNA UNIVERSITY
UNIVERSITY COLLEGE OF ARTS AND SCIENCE
Rudravaram, Machilipatnam-521004

Department of Mathematics

Organizes

A two week value course on **Mathematical Software**

Certificate

This is to certify that Mr./Mrs. **Ch. Umadevi** with Regd. No. **Y22MAT101001** of
M.Sc. Mathematics, Department of Mathematics, University College of Arts and Science, Machilipatnam has successfully
completed the Two Weeks Value Added Course on "**Mathematical Software**" organized by Department of
Mathematics, University College of Arts and Science, Krishna University, Machilipatnam from 13-02-2023 to 28-02-2023.


Course Co-ordinator


Head of the Department (1/2)


Principal



KRISHNA UNIVERSITY
UNIVERSITY COLLEGE OF ARTS AND SCIENCE
Rudravaram, Machilipatnam-521004

Department of Mathematics

Organizes

A two week value course on **Mathematical Software**

Certificate

This is to certify that Mr./Mrs. J. Kameswari with Regd. No. V22-MAT101004 of M.Sc. Mathematics, Department of Mathematics, University College of Arts and Science, Machilipatnam has successfully completed the Two Weeks Value Added Course on "**Mathematical Software**" organized by Department of Mathematics, University College of Arts and Science, Krishna University, Machilipatnam from 13-02-2023 to 28-02-2023.

Course Co-ordinator

Head of the Department

Principal



KRISHNA UNIVERSITY
UNIVERSITY COLLEGE OF ARTS AND SCIENCE
Rudravaram, Machilipatnam-521004

Department of Mathematics

Organizes

A two week value course on **Mathematical Software**

Certificate

This is to certify that Mr./Mrs. G. Bhanu Prakash with Regd. No. Y22-MA101005 of M.Sc. Mathematics, Department of Mathematics, University College of Arts and Science, Machilipatnam has successfully completed the Two Weeks Value Added Course on "**Mathematical Software**" organized by Department of Mathematics, University College of Arts and Science, Krishna University, Machilipatnam from 13-02-2023 to 28-02-2023.



Course Co-ordinator



Head of the Department



Principal



KRISHNA UNIVERSITY
UNIVERSITY COLLEGE OF ARTS AND SCIENCE
Rudravaram, Machilipatnam-521004

Department of Mathematics
Organizes
A two week value course on **Mathematical Software**

Certificate

This is to certify that Mr./Mrs. G. Ramya with Regd. No. Y22-MAT101003 of
M.Sc. Mathematics, Department of Mathematics, University College of Arts and Science, Machilipatnam has successfully
completed the Two Weeks Value Added Course on "**Mathematical Software**" organized by Department of
Mathematics, University College of Arts and Science, Krishna University, Machilipatnam from 13-02-2023 to 28-02-2023.


Course Co-ordinator


Head of the Department


Principal