



GOVERNMENT DEGREE COLLEGE-NAIDUPET

SPSR NELLORE DIST, ANDHRA PRADESH-524126



Certificate Course

Numerical Computations using SCILAB

Department of Computer Science

2020-21



Government Degree College
Naidupet-524126
SPSR, NELLORE Dt, AP.

NOTICE

All the 3rd and 2nd Year B.Sc M.P.Cs students are informed that department of Computer science is planning to organize a certificate programme on Numerical Computations using SCILAB in this academic year.

The duration of the course is 30 hrs and this course is designed for 1st and 2nd Year B.Sc M.P.Cs students only. Interested students are informed to enroll their particulars in Department of Computer Science before 24-08-2021. The detailed objective syllabus will be displayed on the notice board. The course will be conducted from 01-09-2021 to 04-10-2021.

pl
Course Coordinator
LECTURER
Dept. of Computer Science,
GOVT. DEGREE COLLEGE,
NAIDUPET.

[Signature]
Principal
20/8/21
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CERTIFICATE COURSE ON "Numerical Computations using SCILAB"

The course provides a gentle introduction to the SCILAB computing environment, and is intended for beginning users and those looking for a review. It is designed to give students a basic understanding of SCILAB, including popular toolboxes. The course consists of interactive lectures and sample SCILAB problems given as assignments and discussed in class. No prior programming experience or knowledge of SCILAB is assumed. Concepts covered include basic use, graphical representations and tips for designing and implementing SCILAB code.

Objectives of the course:

1. Understanding the SCILAB environment
2. Able to do simple calculations using SCILAB
3. Able to draw signal plotting 2D/3D
4. Able to perform differentiation and integration using SCILAB


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CERTIFICATE COURSE ON "Numerical Computatons using SCILAB"

SYLLABUS/COURSE CONTENT		
Sl.No	Units	Topics to be covered
1	Unit I	Calculations ➤ Trigonometric Calculations ➤ Matrix Calculation ➤ Matrix Arithmetic ➤ FEATURES OF MATRICES
2	Unit II	Signals Plotting 2D/3D ➤ Two Dimensional Plots ➤ 3-Dimensional Plots ➤ <i>Service Organisation</i>
3	Unit III	Visual Equatons Differentiation
4	Unit IV	Integration Equation Solving
5	Unit V	Limits

References

1. 2001 Gilberto E. Urroz. Introduction to SCILAB
2. Introduction to Scilab by Rachna Verma and Arvind Verma


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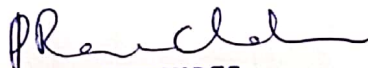


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CERTIFICATE COURSE ON "Numerical Computations using SCILAB"

Assignment:

1. Create two matrices of 3×3 with elements $a = [10 \ 20 \ 30; 40 \ 50 \ 60; 70 \ 80 \ 90]$ and $b = [30 \ 50 \ 71; 64 \ 78 \ 79; 94 \ 10 \ 12]$, multiply them and find the value of $c = a * b$
2. Calculate the determinant value of a matrix $A = [1 \ 2 \ 3; 7 \ 8 \ 9; 1 \ 1 \ 1]$
3. Create a sine wave with range 0 to 1 and the phase shift of $(2 * \pi)$.
4. Find the differentiation ($\text{diff}_f = dx / df$) of $f = e^{-ax} x^{3b} \sin(cx)$ with respect to x .
5. Solve the equation ' $a * x^2 + b * x + c = 0$ '.


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CERTIFICATE COURSE ON "Numerical Computations using SCILAB"

Course out comes:

1. Understanding the SCILAB environment
2. Being able to do simple calculations using SCILAB
3. Good understanding of Linear algebra
4. Perform mathematical Modeling in SCILAB
5. Evaluate, analyze and plot results
6. Being able to carry out simple numerical computations and analyses using SCILAB


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CERTIFICATE COURSE ON "Numerical Computations using SCILAB"

List of the participants

S.NO	NAME OF THE STUDENT	CLASS
1	B.Sravani	II Bsc (mpcs) B. Sravani
2	B.Mahitha	II Bsc (mpcs) B. Mahitha
3	E.Veerendra	II Bsc (mpcs) E. veerendhra
4	K.Aruna	II Bsc (mpcs) K. Aruna
5	M.Viswanadh	II Bsc (mpcs) M. viswanadh
6	P.Chandra Sekhar	II Bsc (mpcs) P. chandra sekhar
7	T.Kesava	II Bsc (mpcs) T. Kesava
8	T.Ravali	II Bsc (mpcs) T. Ravali
9	Ch.Munilakshmi	III Bsc (mpcs) ch. Munilakshmi
10	Ch.hemanthkumar	III Bsc (mpcs) ch. Hemanthkumar
11	G.Laitha	III Bsc (mpcs) G. Laitha
12	T.Sudheer	III Bsc (mpcs) T. Sudheer
13	P.Amrutha	III Bsc (mpcs) P. Amrutha
14	P.Balaji	III Bsc (mpcs) P. Balaji
15	V.Lahari	III Bsc (mpcs) V. Lahari


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Attendance register

Name of the certificate course

: Numerical Computations
Using SCILAB

Department(s)

: Computer Science

Academic Year

: 2020-21

Students of which class

: II, III B.S.C/BSC (RES)


Resource Person(s)

: I Jagan Mohan Reddy

Name Of the student	September 2021																														Oct-2021						
	1	2	3	4	6	7	8	9	11	13	14	15	16	17	18	20	21	22	23	24	25	27	28	29	30	1	2	3	4								
B.Sravani	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
B.Mahitha	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
E.Veerendra	P	P	A	P	P	A	P	A	P	A	P	P	P	A	P	A	P	A	P	P	A	P	A	P	A	P	A	P	A	P	P	P	P	P	P		
K.Aruna	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
M.Viswanadh	P	A	P	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	
P.Chandra Sekhar	A	P	P	A	A	P	P	P	A	P	P	A	A	P	P	P	A	P	P	A	A	P	P	P	A	P	P	A	P	P	A	P	P	A	A	A	
T.Kesava	P	P	A	P	P	A	P	A	P	A	P	P	P	A	P	A	P	A	P	P	P	A	P	A	P	A	P	A	P	P	P	P	P	P	P	P	
T.Ravali	A	P	P	A	A	P	P	P	A	P	P	A	A	P	P	P	A	P	P	A	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	
Ch.Munilakshmi	A	A	A	P	A	A	A	A	A	A	A	P	A	A	A	A	A	A	P	A	A	A	A	A	A	A	A	A	A	A	A	P	P	A	A	A	
Ch.hemanthkumar	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
G.Laitha	P	A	A	P	P	A	A	A	P	A	A	P	P	A	A	A	P	A	A	P	P	A	A	A	P	A	A	P	A	A	P	P	P	P	P	P	
T.Sudheer	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
P.Amrutha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
P.Balaji	P	A	P	A	P	P	A	P	P	P	A	A	P	P	A	P	P	P	A	A	P	P	A	P	P	P	P	A	A	P	P	P	P	P	P	P	
V.Lahari	P	P	A	P	P	A	P	A	P	A	P	P	P	A	P	A	P	A	P	P	P	P	A	P	A	P	A	P	P	P	P	P	P	P	P	P	P

B. Sravani
B. Mahitha
E. Veerendra
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M. Viswanadh
P. Chandra Sekhar
T. Kesava
T. Ravali
Ch. Munilakshmi
Ch. Hemanth Kumar
G. Laitha
T. Sudheer
P. Amrutha
P. Balaji
V. Lahari


Organizing secretary
LECTURER
Dept. of Computer Science,
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Principal
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Evaluation

The Course syllabus and evaluation pattern are decided by the department and approved by the principal. The evaluation is done by the department itself. That is internal evaluation. Examinations are conducted and the final evaluation is done by awarding grades. Each qualified student is awarded with a certificate. The awarding of grades is in the following pattern,

Grade A-more than 75%

Grade B- from 60% to 75%


Grade C- from 50% to 60%


Grade F- not qualified



Department of computer Science
Certificate course on "Numerical Computations Using SCILAB"
Grade Sheet

S.No	Name of the Student	Class	Grade	Signature of the student
1	B.Sravani	II BSC MPCs	A	B. SRAVANI
2	B.Mahitha	II BSC MPCs	B	B. Mahitha
3	E.Veerendra	II BSC MPCs	F	E. Veerendra
4	K.Aruna	II BSC MPCs	A	K. Aruna
5	M.Viswanath	II BSC MPCs	F	M. Viswanath
6	P.ChandraSekhar	II BSC MPCs	C	P. chandra sekhar
7	T.Kesava	II BSC MPCs	A	T. kesava
8	T.Ravali	II BSC MPCs	A	T. RAVALI
9	Ch.Munilakshmi	III BSC MPCs	A	Ch. Munilakshmi
10	Ch.HemanthKumar	III BSC MPCs	A	Ch. Hemanth Kumar
11	G.Lalitha	III BSC MPCs	A	G. Lalitha
12	T.Sudheer	III BSC MPCs	F	T. Sudheer
13	P.Amrutha	III BSC MPCs	C	P. Amrutha
14	P.Balaji	III BSC MPCs	A	P. Balaji
15	V.Lahari	III BSC MPCs	B	V. Lahari

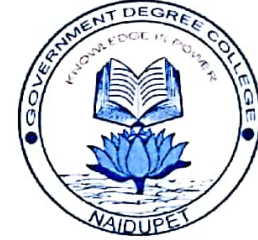

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SPSR Nellore Dist., A.P.



CERTIFICATE

This is to Certify that Mr/Kum.....*B. Sravani*.....
of.....*II B.Sc. (MPCS)*.....has attended the Add on programme on
Numerical Computations using SCILAB.... Conducted by the Dept. of *Computer Science*.....
during the academic year *2020 - 2021* and Qualified with Grade.....*A*.....

Pranab
Convenor
LECTURER

Dept. of Computer Science,
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[Signature]
Principal

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(Re accredited with 'B' Grade by NAAC)

SPSR Nellore Dist., A.P.



CERTIFICATE

This is to Certify that Mr/Kum.....*CH: Hemanth Kumar*.....
of.....*III BSc (MPCG)*.....has attended the Add on programme on
Numerical Computations using SCILAB.....Conducted by the Dept. of *Computer Science*.....
during the academic year *2020 - 2021* and Qualified with Grade.....*A*.....

Praveen Cheluri
Convener
LECTURER
Dept. of Computer Science,
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NAIDUPET.

[Signature]
Principal
PRINCIPAL
Govt. Degree College
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