

KRE Society's  
Karnatak Arts, Science and Commerce College, Bidar  
Department of Mathematics

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Add-on course on Mathematical Modeling and Simulation  
with MATLAB

2021-22

Course coordinator

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Smt. Padmini Kaji  
Assistant Professor in Mathematics



Date: 23/12/21

To,  
The Principal  
Karnatak Arts, Science and Commerce College, Bidar

Sub: Request to grant permission to start add-on course on Mathematical Modeling and Simulation with MATLAB from the academic year 2021-22.

Respected Sir,

As per the guidelines issued by IQAC, we would like to start the add-on course on "Mathematical Modelling and Simulation with MATLAB" from the academic year 2021-22: with intake of 25 students. Please permit us to start the add-on course and do the needful.

Thanking You.

KRE Society's  
Karnatak Arts, Science and Commerce College, Bidar  
Department of Mathematics



Meeting Minutes for Institutional Board of Studies for Add-on  
Mathematical Modelling and Simulation with MATLAB on (5/01/2022)

The institutional Board of Studies of the Department of Mathematics for the add-on course on Mathematical Modelling and Simulation with MATLAB held on (05/01/22) in Department of Mathematics at 11:00 am.

Sl No.	Name	Institute	Designation
1	Smt. Padmini Kaji	Head Department of Mathematics, KASCC, Bidar.	Chairman
2	Smt. ArchanaPatil	Assistant Professor, Department of Mathematics, KASCC, Bidar.	Member
3	Mr. Rathod Anil	Assistant Professor, Department of Mathematics, KASCC, Bidar.	Member
4	Dr.Hemavati.Patil	Assistant Professor, Department of Mathematics, Govt. Degree College Manhalli	External Expert

In the beginning of the meeting the Chairman of the BOS Smt. Padmini Kaji welcomed all members and briefed them about the academic activities of the Department of Mathematics. The members expressed their highly appreciation and satisfaction about the courses and activities of the department.

After that institutional BOS discussed and resolved the following items:

Item 1. Starting of the add-on course on Mathematical Modeling and Simulation with MATLAB.

The BOS discussed the item and resolved to start the add-on course on Simulation and Modelling using MATLAB

Item 2. Approval of the Syllabus for add-on course.

The BOS discussed and approved the syllabus for the add-on course on Mathematical Modeling and Simulation with MATLAB

Item 3. Approval of admission criteria

The BOS discussed and approve the criteria for admission and resolved that any students enrolled in PG course in KASCC can enrol in this course. In addition to this BOS also finalized the exam pattern.

Meeting of the BOS was concluded with the vote of thanks by Smt. Padmini Kaji, Assistant Professor in Department of Mathematics.

The following members were present in the meeting:

• DR.M.S Chelva

• Dr. Mallikarjun Hangerga

• Dr.Hemavati Patil

• Rajmohan P

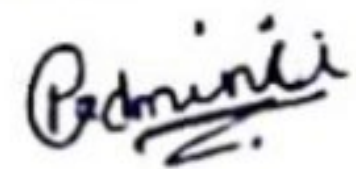
• Smt. Padmini Kaji

• Smt. Archana Patil

• Mr. Rathod Anil

PRINCIPAL

Karnataka Arts Sci. & Com. College  
BIDAR-585401





## Add-on Course on Mathematical Modelling and Simulation With MATLAB

**Preamble:** This course will provide an Introduction Mathematical Modelling and Simulation with MATLAB this course will cover number of topics such as Modeling with recurrence relation with using MATLAB functions and terminology, Stochastic models Numerical Differentiation, Iterative problems, plotting points, For loops, While loops conditional statements this course will prepare students competitive examinations

### Objectives:

- To develop the Programms to write with help of Matlab
- Inculcating the problem solving skills
- To skill them for data Variation

### Instructional Design:

This course is of 30-hour duration which includes theory classes and assignments etc.

Medium of Instruction: English

### Course Structure and Examination Scheme:

#### Total contact hours:

Theory Classes: 30 Hours

#### Mode of Examination:

MCQ Exam:  
Assignments:

60 Marks  
40 Marks

Eligibility: Students enrolled in PG

No. of Seats: 25 (Each batch)



## Add-on Course on Mathematical Modeling and Simulation with MATLAB

### Syllabus

**Module I:** Define modeling, types of mathematical models, Modeling with recurrence relations, Modeling with differential equations, Stochastic models, examples.

10 hrs

**Module II:** Importance of programming, Basics of MATLAB, MATLAB function and Terminology, Plotting points and curves using ez-polt, using polt, The symbolic toolkit, for loops, while loops, conditional statements, examples.

10hrs

**Module III:** Fixed point Iteration, MATLAB function files, The Bisection method, Newton's method, examples.

10hrs

#### References:

1. Numerical Analysis: M.K Iyengar S.R.K and Jain R.K
2. Numerical Analysis: S.S Sastry
3. Basic of MATLAB Programming: R. Balaji
4. Understanding MATLAB :S.N.ALAM
5. Applied Numerical Methods Using MATLAB:Wiley

**ADD-ON Course Mathematical Modelling and Simulation with  
MATLAB**

**Department of Mathematics**

**Outcomes**

1. Understand and practice Programmes function.
2. Discuss and practice iterative problems in MATLAB.
3. Identify and Solve iteration and recurrence relation.
4. Discuss the problem and Plotting graph with help MATLAB
5. Classify the iteration and programme function with the help of MATLAB.
6. Understand the programme of MATLAB interms of Mathematical Modeling.
7. Developing Models across a whole organization.
8. Characterizing systems using field data



Date: 08/01/22

## NOTICE

All the students are hereby informed that, the Department of Mathematics is starting the add-on course on Mathematical Modeling and Simulation with MATLAB from the 08/01/22, interested students can enrol their names on or before 13/01/22 in the Department of Mathematics.

HOD  
Head

Dept. of Mathematics  
Karnatak PG & UG College  
BIDAR

Principal  
PRINCIPAL  
Karnataka Arts Sci. & Com. College  
BIDAR-585401





KRE Society's  
Karnatak Arts, Science and Commerce College, Bidar  
Department of Mathematics

Date: 08/01/22

### NOTICE

All the students are hereby informed that, the add-on course on Mathematical Modeling and Simulation with MATLAB Classes are started on 07/01/22 Department of Mathematics.

HOD  
Head

Dept. of Mathematics  
Karnatak PG & UG College  
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KRE Society's  
Karnatak Arts, Science and Commerce College, Bidar  
Department of Mathematics



Add-on Course on Mathematical Modelling and Simulation with  
MATLAB

Time-Table (2021-22)

Day/Time	3.30pm to 4.30pm
Monday	Batch (I&II)
Tuesday	Batch (I&II)

Batch I: M.Sc I SEM

Batch II: M.Sc III SEM

*P. S. S.*

HOD  
Dept. of Mathematics  
Karnatak PG & UG College  
BIDAR

*[Signature]*  
Principal

Karnataka Arts Sci. & Com. College  
BIDAR-585401



**Karnatak Arts, Science and Commerce College, Bidar**

KPC Society's

(Affiliated to Gulbarga University, Kalaburagi)  
College with Potential for Excellence



**ADMISSION FORM**

Certificate/Value added/Skill Development/Diploma/Advance Diploma Courses & IAS/IPS/NET/SET Coaching Classes

Name of the Department Mathematics Year 2021-22

Name of the Student Sudhasani Patil

Father's/Guardian's Name Santosh patil

Date of Birth  
 Date: 

3	0
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 Month: 

1	0
---	---

 Year: 

2	0	0	0
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Address for Correspondence :

Nondi Colony Bidar

Semester/Class : M.Sc 1<sup>st</sup> semester

Register No : PO4AE2150011

Percentage of previous semester : 84.5

Contact No : 7619359950

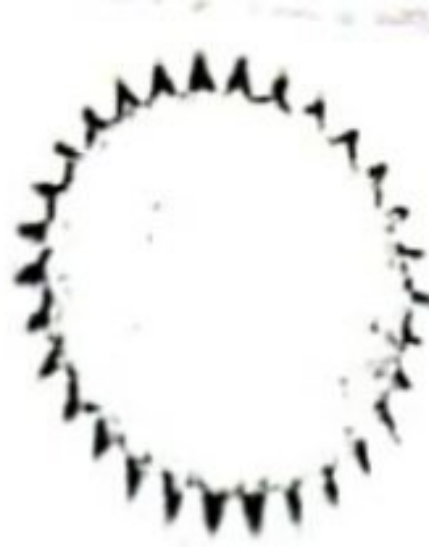
E-Mail ID : Sudhasani.patil208@gmail.com

Course to be Joined: Add-on-course on mathematical modeling & simulation with MATLAB

Sfatu  
Signature of the Student

[Signature]  
HOD/Coordinator  
Dept. of Mathematics  
Karnatak PG College  
BIDAR

[Signature]  
Principal  
ಕರ್ನಾಟಕ ಪಿ.ಜಿ. ಕಾಲೇಜು  
ಬಿದರ್



Statement Showing the number of marks obtained in each head of passing at the  
VI SEMESTER BACHELOR OF SCIENCE DEGREE EXAMINATION - OCTOBER 2021

Reg. No.: 1946546

Name: SUDHARANI SANTOSH

Subjects	Max Marks	Min Marks	Marks Obtained	Credit Hours	Grade Points	Credit Points	Grade
DSE : NUCLEAR AND PARTICLE PHYSICS PRACTICAL	40	16	37				
I.A.	10		10				
Total	50	20	47	2	9.40	18.80	0
DSE : INDUSTRIAL CHEMICAL & ENVIRONMENT THEORY	80	32	52				
I.A.	20		20				
Total	100	40	72	4	7.20	28.80	0
DSE : CHEMP2 - INDUSTRIAL CHEMICAL & ENVIRONMENT PRACTICAL	40	16	38				
I.A.	10		10				
Total	50	20	48	2	9.60	19.20	0
DSE : 6CT - NUMERICAL ANALYSIS - II THEORY	80	32	68				
I.A.	20		20				
Total	100	40	88	4	8.80	35.20	0
DSE : 6CP - NUMERICAL ANALYSIS - II PRACTICAL	40	16	38				
I.A.	10		10				
Total	50	20	48	2	9.60	19.20	0
SEC-3: FUEL CHEMISTRY THEORY	40	16	29				
I.A.	10		10				
Total	50	20	39	2	7.80	15.60	0
SEC-4 (6D) : VECTOR CALCULUS THEORY	40	16	40				
I.A.	10		10				
Total	50	20	50	2	10.00	20.00	0
DSE4 : NUCLEAR AND PARTICLE PHYSICS THEORY	80	32	53				
I.A.	20		20				
Total	100	40	73	4	7.30	29.20	0
Total of VI SEMESTER	550	220	465	22	69.70	186.00	
Total of V SEMESTER	550		476	22		190.40	
Total of IV SEMESTER	650		565	24		208.00	
Total of III SEMESTER	650		476	24		174.30	
Total of II SEMESTER	700		448	26		164.60	
Total of I SEMESTER	700		451	28		180.40	
<b>Grand Total</b>	<b>3800</b>		<b>2881</b>	<b>146</b>		<b>1103.70</b>	

Total marks obtained (in words): TWO THOUSAND EIGHT HUNDRED EIGHTY ONE  
Result / Grade: FIRST CLASS WITH DISTINCTION / A

SGPA: 8.45  
CGPA: 7.56  
College: 2203 B.V.B COLLEGE, BIDAR.

K.R.E Society's  
Karnatak Arts, Science and Commerce College Bidar  
Department Of Mathematics  
Student Enrolment List



Class: M.Sc III sem (Batch-2)

Sl.No	Name of the Student	Contact No.	Signature
1.	Nivedita Ravikumar	8660952298	Nivedita
2.	Mohd Jafar Md Mvzammil	9739036872	Jafar
3.	Ayesha Siddiqua Anwar pasha	8147645120	Ayesha
4.	Parvati Basavaraj	8971709316	Parvati
5.	Sangmesh Somnath	8550007257	Sangmesh
6.	Vaishnavi Chandrakanth	7975395161	Vaishnavi
7.	Math Geeta Gurupadayya	6362582448	Geeta
8.	Md Faruq Md Isaq	9739036872	Faruq
9.	Shivaleela Ramesh	9686082275	Shivaleela
10.	Sneha Somnath	8861768884	Sneha
11.	Supriya Veerbhadrarayya	9380529822	Supriya
12.	Raheem Unnisa Begum	9108281502	Raheem
13.	Lokesh Eashappa	8970446435	Lokesh
14.	Qurratul Ain MA Hakeem	9108281502	Qurratul
15.	Summaya Anjum Md. Ayub	9845534896	Summaya
16.	Nishat Anjum Md Salauddin	7892272873	Nishat
17.	Deepika Baswaraj	9886874153	Deepika
18.	Akshata Gnyandev Panchal	9686389510	Akshata
19.	Usha Suresh Gouli	9972639725	Usha

20.	Siddu Dhulappa	9108182565	<i>Siddu</i>
21.	Vaishali Patil	7353817914	<i>Vaishali</i>
22.	Vijaylaxmi Maruti	7204445248	<i>Vijaylaxmi</i>
23.	Rangurani Madanlal	9019583543	<i>Rangurani</i>
24.	Shivaleela Shivaraj	9611061755	<i>Shivaleela</i>
25.	Vaishali Sanjukumar	9900191699	<i>Vaishali</i>
26.	Anwar Pasha Ahmad Pasha	8147645120	<i>Anwar Pasha</i>

*P. Kumar*

HOD

Head

Dept. of Mathematics

Karnatak PG. & G College

BIDAR

*[Signature]*

Principal  
PRINCIPAL

Karnataka Arts Sci. & Com. College

BIDAR-585401

K.R.E Society's  
Karnatak Arts, Science and Commerce College Bidar  
Department Of Mathematics  
Student Enrolment List

Class: M.Sc Isem(Batch-1)



Sl.No	Name of the Student	Contact No.	Signature
1.	Arjumand Sultana	8867499792	Arjum.
2.	Devi	8095692943	Devi
3.	Pooja	808880716	Pooja
4.	Sushma	9880364968	Sushma
5.	Sunita	9686164015	Sunita...
6.	Ambika	7676138950	Ambika
7.	Sultana Begum	9964984674	Sultana
8.	Sudharani	7619359952	Sudharani
9.	Depika	9380172465	Depika
10.	Nabeela Sadaf	9845404440	Nabeela
11.	Stella Kiran	9019882629	Stella
12.	Srusti	7022465112	Srusti
13.	Vaishnavi	7338057413	Vaishnavi
14.	Anupama Holla	7204983676	Anupama.
15.	Kanchana	7619246620	Kanchana
16.	Pooja	9740906267	Pooja
17.	Triveni	9964129089	Triveni
18.	Akshata	8792134489	Akshata
19.	Shireen Fatima	7090859037	Shireen

20.	Beena	7026740032	<i>Beena</i>
21.	Arati	<del>9482210374</del> 9482210374	<i>Ar</i>
22.	Chandana		<i>Ch</i>
23.	Masarath Begum	9591867273	<i>M. Begum</i>
24.	<i>Leajual S.Y. Nagshirky</i>	7411512824	<i>Leajual</i>
25.			

*Padma*

HOD

Head

Dept. of Mathematics  
Karnatak PG & UG College  
BIDAR

*[Signature]*

Principal  
PRINCIPAL

Karnataka Arts Sci. & Com. College  
BIDAR-585401



K.R.E Society's  
**Karnatak Arts, Science and Commerce College, Bidar**  
 Department of Mathematics  
**Add-on Course on Mathematical Modeling and Simulation with**



**MATLAB**  
**Batch- I Attendance (2021-22)**

Sl. No	NAME OF THE STUDENT	17/01/22	18/01/22	24/01/22	25/01/22	31/01/22	01/02/22	7/2/22	2/2/22	04/2/22	10/2/22
1	Arjumand Sultana	P	P	P	P	A	P	P	P	P	P
2	Devi	P	A	P	P	P	A	P	P	P	P
3	Pooja	A	P	P	P	P	P	A	P	P	P
4	Sushma	P	P	A	P	P	P	P	A	P	P
5	Sunita	P	A	P	P	P	A	P	P	P	P
6	Ambika	A	P	P	P	P	A	P	P	P	A
7	Sultana Begum	P	A	P	A	P	P	P	P	P	P
8	Sudharani	P	P	A	A	P	P	P	P	A	P
9	Depika	P	A	P	A	P	P	P	P	P	P
10	Nabeela Sadaf	A	P	A	P	P	P	P	P	P	A
11	Stella Kiran	P	A	P	A	P	P	P	P	P	P
12	Srusti	A	P	A	P	P	P	P	P	P	P
13	Vaishnavi	P	A	P	P	P	P	P	P	A	P
14	Anupama Holla	P	A	P	A	P	P	P	P	P	P
15	Kanchana	P	A	P	A	P	P	P	P	A	P
16	Pooja	P	A	P	A	P	P	A	A	P	P
17	Triveni	P	A	P	P	P	A	P	A	P	P
18	Akshata	A	P	P	P	P	P	P	A	A	P
19	Shireen Fatima	P	A	P	A	P	P	P	A	A	P
20	Beena	A	P	P	P	A	P	P	P	P	P

21	Arati	P	P	P	A	P	P	P	P	P	P
22	Chandana	A	P	P	P	A	P	P	P	A	P
23	Masarath Begum	P	P	P	P	A	P	P	P	A	P
24											
25											
Sign of Faculty											

*Arati*

HOD

**Head**

Dept. of Mathematics

Kannada PG & UG College

**BIDAR**

**Principal**

Kannada Arts, Sci. & Com. College

BIDAR-585401



MATLAB

Batch- II Attendance (2021-22)

Sl.No	NAME OF THE STUDENT	13/1/22	18/1/22	24/1/22	25/1/22	31/1/22	01/2/22	7/2/22	8/2/22	14/2/22	15/2/22
1	Nivedita Ravikumar	P	A	P	P	P	A	P	P	P	P
2	Mohd Jafar Md Mvzammit	P	A	P	P	P	P	A	P	P	P
3	Ayesha Siddiqua Anwar pasha	P	A	P	P	P	P	A	P	P	P
4	Parvati Basavaraj	P	P	A	P	P	P	A	P	P	P
5	Sangmesh Somnath	A	P	P	P	A	A	A	P	P	P
6	Vaishnavi Chandrakanth	A	P	A	P	P	P	A	P	P	P
7	Math Geeta Gurupadayya	P	A	P	A	P	P	P	P	A	P
8	Md Faruq Md Isaq	A	P	P	P	A	P	P	P	P	P
9	Shivaleela Ramesh	P	A	P	P	P	P	A	P	P	P
10	Sneha Somnath	P	A	P	P	A	P	A	P	P	P
11	Supriya Veerbhadrayya	P	P	P	A	P	P	P	P	A	P
12	Raheem Unnisa Begum	P	A	P	P	P	A	P	P	P	A
13	Lokesh Eashappa	A	P	P	P	P	P	A	A	P	P
14	Qurratul Ain MA Hakeem	P	A	P	A	P	P	A	A	P	P
15	Summaya Anjum Md. Ayub	A	P	P	P	P	P	P	P	P	P
16	Nishat Anjum Md Salauddin	P	A	P	P	A	P	P	P	P	A
17	Deepika Baswaraj	P	P	P	P	P	P	A	P	P	P
18	Akshata Gnyandev Panchal	P	A	P	P	P	A	P	A	P	P
19	Usha Suresh Gouli	P	P	P	P	A	P	P	P	P	P
20	Siddu Dhulappa	A	P	P	P	P	A	P	P	P	P
21	Vaishali Patil	P	A	P	A	P	A	P	P	P	P
22	Vijaylaxmi Maruti	P	A	P	P	P	P	P	P	P	P
23	Rangurani Madanlal	A	P	P	P	P	P	P	P	P	P

21	Arati	P	P	P	A	P	P	P	P	P	P
22	Chandana	A	P	P	P	A	P	P	P	P	P
23	Masarath Begum	P	P	P	P	A	P	P	P	P	P
24											
25											
Sign of Faculty											

*Arati*

HOD

Head

Dept. of Mathematics

Laxminagar PG & HO College

BIDAR

*[Signature]*

Principal

Karnataka Arts, Sci. & Com. College  
BIDAR-585101



Add-on Course on Mathematical Modeling and Simulation with  
MATLAB  
Batch- I Attendance (2021-22)

No.	NAME OF THE STUDENT	11/2/22	12/2/22	22/2/22	07/3/22	8/3/22	14/3/22	15/3/22	21/3/22	22/3/22	28/3/22
	Arjumand Sultana	P	P	P	P	P	A	P	P	P	P
	Devi	P	A	P	P	P	P	P	P	P	P
	Pooja	A	P	P	P	P	P	P	P	P	P
	Sushma	A	P	P	P	P	P	P	P	P	P
	Sunita	P	A	P	P	P	P	A	P	P	P
	Ambika	P	A	P	P	P	P	P	A	P	P
	Sultana Begum	P	P	P	P	P	P	P	A	P	P
	Sudharani	P	A	P	P	P	P	P	P	P	P
	Depika	P	A	P	A	P	P	P	P	P	P
	Nabeela Sadaf	A	P	P	P	P	P	P	P	P	P
	Stella Kiran	P	A	P	P	P	P	P	P	P	P
	Srusti	P	P	P	P	P	P	P	P	P	P
	Vaishnavi	A	P	P	P	P	P	P	P	P	P
	Anupama Holla	P	A	P	A	P	P	A	P	P	P
	Kanchana	P	A	P	P	P	A	P	P	A	P
	Pooja	P	P	P	P	P	P	A	A	P	P
	Triveni	P	P	P	P	P	P	P	A	P	A
	Akshata	P	P	P	P	P	P	P	P	A	P
	Shireen Fatima	P	A	P	P	A	P	P	P	P	P
	Beena	P	P	P	P	P	P	P	A	P	P

24	Shivaleela Shivaraj	P	A	P	P	P	A	P	P	P	A
25	Vaishali Sanjukumar	P	P	P	P	P	A	P	P	P	P
26	Anwar Pasha Ahmad Pasha	P	P	P	P	P	A	P	A	P	P.
Sign of Faculty											

*Pardumini*

HOD

**Head**

Dept. of Mathematics  
Karnatak ... College  
BIDAR

**Principal**  
**PRINCIPAL**  
Karnataka Arts Sci. & Com. College  
BIDAR-585401

K.R.E Society's  
Karnatak Arts, Science and Commerce College, Bidar  
Department of Mathematics  
Add-on Course on Mathematical Modeling and Simulation



MATLAB  
Batch- II Attendance (2021-22)

S.No	NAME OF THE STUDENT	01/01/22	02/01/22	03/01/22	04/01/22	05/01/22	06/01/22	07/01/22	08/01/22	09/01/22	10/01/22	11/01/22	12/01/22
1	Nivedita Ravikumar	P	A	P	P	P	P	A	P	P	P	P	P
2	Mohd Jafar Md Mvzammil	A	P	P	P	P	A	P	P	P	P	P	P
3	Ayesha Siddiqua Anwar pasha	P	P	A	A	P	P	P	P	P	P	P	P
4	Parvati Basavaraj	A	P	P	P	P	P	A	P	P	P	P	P
5	Sangmesh Somnath	P	A	P	P	P	P	A	P	P	P	P	P
6	Vaishnavi Chandrakanth	P	A	P	P	P	P	P	P	A	P	P	P
7	Math Geeta Gurupadayya	P	A	P	P	P	P	P	P	P	P	A	P
8	Md Faruq Md Isaq	P	A	P	P	P	P	P	P	P	P	P	P
9	Shivaleela Ramesh	A	P	P	P	P	P	P	P	P	P	P	A
10	Sneha Somnath	P	P	A	A	P	P	P	P	P	P	P	P
11	Supriya Veerbhadrarayya	P	P	P	P	P	P	A	P	P	P	P	P
12	Raheem Unnisa Begum	A	P	P	P	P	P	P	A	P	P	P	P
13	Lokesh Eashappa	P	P	P	A	P	P	P	P	P	A	P	P
14	Qurratul Ain MA Hakeem	P	A	P	A	P	P	P	P	P	P	P	P
15	Summaya Anjum Md. Ayub	P	P	P	P	P	P	P	P	P	P	P	A
16	Nishat Anjum Md Salauddin	P	A	P	A	P	P	P	P	P	P	P	P
17	Deepika Baswaraj	A	P	P	P	P	P	P	P	A	P	P	P
18	Akshata Gnyandev Panchal	P	P	P	A	P	P	P	P	P	P	A	P
19	Usha Suresh Gouli	P	A	P	P	P	P	A	P	P	P	P	P
20	Siddu Dhulappa	P	A	P	P	P	A	P	P	P	P	P	A
21	Vaishali Patil	P	P	P	P	P	P	P	P	P	P	P	P
22	Vijaylaxmi Maruti	P	A	P	A	P	A	P	P	P	P	P	P
23	Rangurani Madanlal	P	P	P	P	P	P	P	P	P	P	P	A

Arati	P	A	P	P	P	P	P	P	P	P
Chandana	P	A	P	P	P	P	P	P	P	P
Masarath Begum	A	P	P	P	P	P	P	P	P	P
Sign of faculty										

*Pdumini*

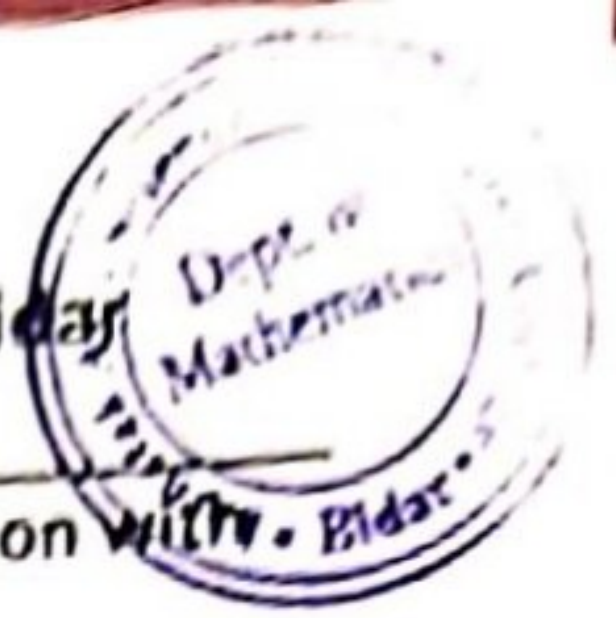
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Karnataka PGT & UG College  
BIDAR

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Karnataka Arts Sci. & Com. College  
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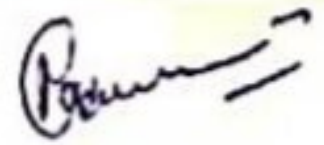


K.R.E Society's  
Karnatak Arts, Science and Commerce College, Bidar  
Department of Mathematics  
Add-on Course on Mathematical Modeling and Simulation with



MATLAB  
Batch- I Attendance (2021-22)

Sl. No	NAME OF THE STUDENT	4/4/21	5/4/21	11/4/22	12/4/22	18/4/22	7/5/22	20/4/22	26/4/22	25/5/22	10/5/22
1	Arjumand Sultana	P	P	P	P	P	P	A	P	P	P
2	Devi	P	P	P	A	P	P	P	P	A	P
3	Pooja	P	P	P	P	A	P	P	P	P	A
4	Sushma	P	P	P	A	P	P	P	A	P	P
5	Sunita	P	P	P	A	P	P	P	P	A	P
6	Ambika	P	P	P	P	P	P	P	P	P	P
7	Sultana Begum	A	P	P	P	P	P	P	P	P	P
8	Sudharani	P	P	P	P	P	A	P	P	P	P
9	Depika	P	P	P	P	P	P	P	A	P	P
10	Nabeela Sadaf	P	A	P	P	P	P	P	P	P	A
11	Stella Kiran	P	P	P	A	P	P	P	P	P	P
12	Srusti	P	P	P	P	P	P	P	A	P	P
13	Vaishnavi	P	P	P	P	P	P	P	A	P	P
14	Anupama Holla	P	P	P	P	P	P	P	P	P	P
15	Kanchana	P	P	P	P	P	P	P	P	P	A
16	Pooja	P	A	P	P	P	P	P	P	P	P
17	Triveni	P	P	P	P	P	P	P	P	P	A
18	Akshata	P	P	P	P	P	P	P	P	P	P
19	Shireen Fatima	P	A	P	P	P	P	P	P	P	P
20	Beena	P	P	A	P	P	P	P	P	P	P
21	Arati	P	A	P	P	P	P	P	P	P	P
22	Chandana	P	P	P	P	P	P	P	P	P	P
23	Masarath Begum	P	A	P	P	P	P	P	P	P	A
24											
25											
Sign of Faculty											

  
HOD Head  
Dept. of Mathematics  
Karnatak PG & UG College  
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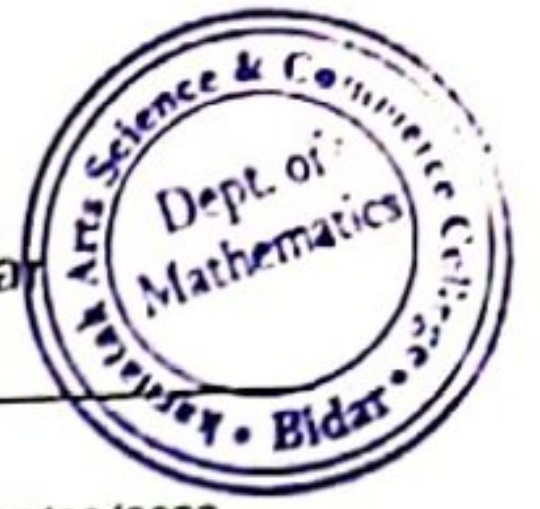
### Batch- II Attendance (2021-22)

Sl.No	NAME OF THE STUDENT	1/10/22	5/10/22	11/10/22	17/10/22	23/10/22	29/10/22	5/11/22	11/11/22	17/11/22	23/11/22	29/11/22
1	Nivedita Ravikumar	P	P	P	P	P	P	P	P	P	P	P
2	Mohd Jafar Md Mvzammil	P	P	P	P	P	P	P	P	P	P	P
3	Ayesha Siddiqua Anwar pasha	P	A	P	P	A	P	P	P	P	P	P
4	Parvati Basavaraj	P	P	P	P	P	P	P	P	P	P	P
5	Sangmesh Somnath	P	P	P	P	P	P	P	P	P	P	P
6	Vaishnavi Chandrakanth	P	P	P	P	P	P	P	P	P	P	P
7	Math Geeta Gurupadayya	P	P	P	P	P	P	P	P	P	P	P
8	Md Faruq Md Isaq	P	P	A	P	P	P	P	P	P	P	P
9	Shivaleela Ramesh	P	P	P	P	P	P	P	P	P	P	A
10	Sneha Somnath	P	P	P	P	P	P	A	P	P	P	P
11	Supriya Veerbhadrayya	P	P	P	P	P	P	P	P	P	P	P
12	Raheem Unnisa Begum	P	A	P	P	P	P	P	P	P	P	A
13	Lokesh Eashappa	P	P	P	A	P	P	P	P	P	P	P
14	Qurratul Ain MA Hakeem	P	P	P	P	P	P	P	P	P	P	P
15	Summaya Anjum Md. Ayub	A	P	P	P	P	P	P	P	P	P	P
16	Nishat Anjum Md Salauddin	P	P	P	P	P	A	P	P	P	P	P
17	Deepika Baswaraj	P	P	P	P	P	P	P	P	P	P	P
18	Akshata Gnyandev Panchal	P	P	P	P	P	P	P	P	P	P	P
19	Usha Suresh Gouli	A	P	P	P	P	P	P	P	P	P	P
20	Siddu Dhulappa	A	P	P	P	P	P	P	P	P	P	P
21	Vaishali Patil	P	P	P	A	P	P	P	P	P	P	P
22	Vijaylaxmi Maruti	P	P	P	P	P	P	P	P	P	P	P
23	Rangurani Madanlal	P	P	P	P	P	P	P	P	P	P	P
24	Shivaleela Shivaraj	P	P	P	P	P	P	P	P	P	P	P
25	Vaishali Sanjukumar	P	P	P	P	P	P	P	P	P	P	P
26	Anwar Pasha Ahmad Pasha	P	P	P	P	P	A	P	P	P	P	P
Sign of Faculty		P	P	P	P	P	P	P	P	P	P	A

*[Signature]*  
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*[Signature]*  
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KRE Society's  
Karnatak Arts, Science and Commerce College, Bidar  
Department of Mathematics



Date: 16/05/2022

### NOTICE

All the students Here by inform that add-on course on Mathematical Modeling and Simulation with MATLAB, the course examination is held on 26-05-2022 at 10 am to 12pm

**HOD**

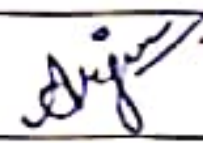

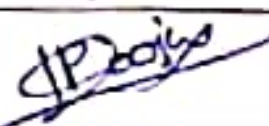
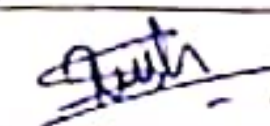
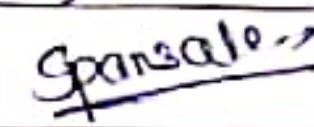
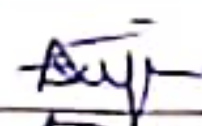
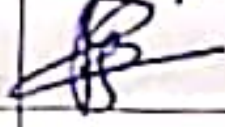
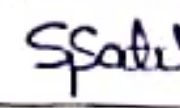
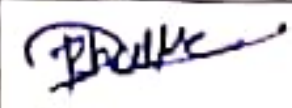
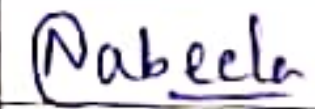
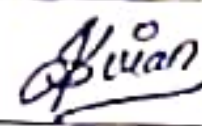
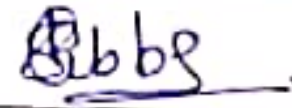
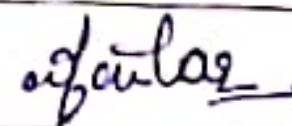
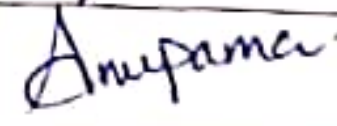
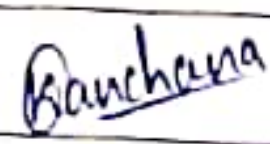
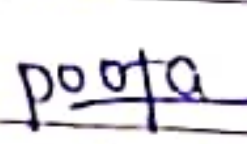
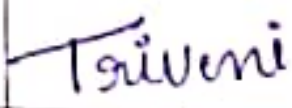
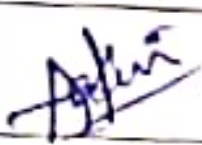
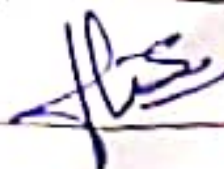
Dept. of Mathematics  
Karnatak Arts, Science & Commerce College  
BIDAR

**Principal**

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Karnataka Arts, Sci. & Com. College  
BIDAR-585401

K.R.E Society's  
Karnatak Arts, Science and Commerce College Bidar  
Department Of Mathematics  
Internal assessment attendance List 2021-22

Class: M.Sc I sem(Batch-1)

Sl.No	Student Name	Signature
1.	Arjumand Sultana	
2.	Devi	
3.	Pooja	
4.	Sushma	
5.	Sunita	
6.	Ambika	
7.	Sultana Begum	
8.	Sudharani	
9.	Depika	
10.	Nabeela Sadaf	
11.	Stella Kiran	
12.	Srusti	
13.	Vaishnavi	
14.	Anupama Holla	
15.	Kanchana	
16.	Pooja	
17.	Triveni	
18.	Akshata	
19.	Shireen Fatima	

20.	Beena	<i>Beena</i>
21.	Arati	<i>Arati</i>
22.	Chandana	
23.	Masarath Begum	<i>Masarath</i>
24.	<i>Burjwal S. Singh</i>	<i>Burjwal</i>
25.		

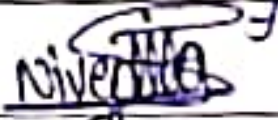

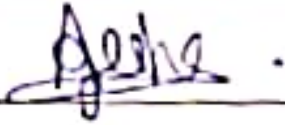
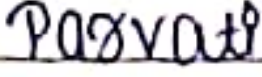
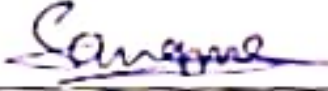
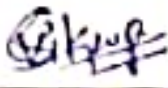
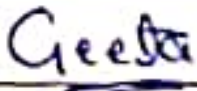
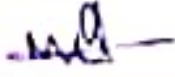
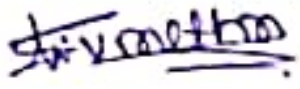




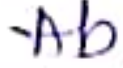


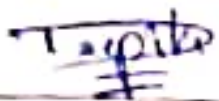
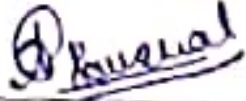
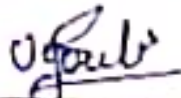
*[Signature]*  
Staff incharge

*[Signature]*  
Head  
Dept. of Home Science  
Karnatak PG & UG College  
BIDAR

*[Signature]*  
Principal  
PRINCIPAL  
Karnataka Arts Sci & Com. College  
BIDAR-585401

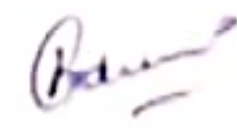
K.R.E Society's  
Karnatak Arts, Science and Commerce College Bidar  
Department Of Mathematics  
Examination attendance List 2021-22

Class: M.Sc III sem(Batch-2)

Sl.No	Student Name	Signature
1.	Nivedita Ravikumar	
2.	Mohd Jafar Md Mvzammil	
3.	Ayesha Siddiqua Anwar pasha	
4.	Parvati Basavaraj	
5.	Sangmesh Somnath	
6.	Vaishnavi Chandrakanth	
7.	Math Geeta Gurupadayya	
8.	Md Faruq Md Isaq	
9.	Shivaleela Ramesh	
10.	Sneha Somnath	
11.	Supriya Veerbhadrayya	
12.	Raheem Unnisa Begum	
13.	Lokesh Eashappa	
14.	Qurratul Ain MA Hakeem	
15.	Summaya Anjum Md. Ayub	
16.	Nishat Anjum Md Salauddin	
17.	Deepika Baswaraj	
18.	Akshata Gnyandev Panchal	
19.	Usha Suresh Gouli	

20.	Siddu Dhulappa	<u>Patil</u>
21.	Vaishali Patil	<u>Vaishali</u>
22.	Vijaylaxmi Maruti	<u>vijaylaxmi</u>
23.	Rangurani Madanlal	<u>Patil</u>
24.	Shivaleela Shivaraj	<u>shivaleela</u>
25.	Vaishali Sanjukumar	<u>Vaishali</u>
26.	Anwar Pasha Ahmad Pasha	<u>Anwar Pasha</u>

  
Invigilator Sign

  
HOD Mathematics  
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K.R.E Society's  
KARNATAK ART, SCIENCE AND COMMERCE COLLEGE BIDAR  
ADD-ON COURSE INTERNAL ASSESSMENT

DEPARTMENT OF MATHEMATICS



SUBJECT: Mathematical Modelling and Simulation with MATLAB  
Time: 10 AM TO 11 AM  
Max. Marks: 40

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### INSTRUCTIONS TO THE CANDIDATE

1. The paper consist of 30 multiple choice question with 4 answers. Before starting to answer the question, verify whether you got correct test booklet and the test booklet contains 30 questions with answer.
2. Each question has four alternative answer A, B, C, D. the correct answer has to chosen only one and you have to tick ( $\checkmark$ ) the answer.
3. The candidate shall use only Blue / black pen.
4. There is no negative making for the incorrect answer.
5. If a candidate wishes to leave examination during the middle of the examination, he will not be allowed to take the test booklet with him.
6. A candidate is forbidden from carrying a Mobile phone, calculator, I-Phone or any other electronic device into examination hall. In case accidently a candidate has brought any of such things, he shall hand it over the room supervisor before the commencement of the examination and collect it back after the completion of the examination.
7. In case candidate is found to process any such devices, he will booked under the Malpractice case.



- 1) The order of convergence of Newton Raphson method is?
- 2
  - 3
  - 0
  - 1
- 2) The approximate value of a root of  $x^2 - 13 = 0$ , then 3.5 as initial value after one iteration using Newton-Raphson method is?
- 2.687
  - 2.678
  - 3.607
  - 3.597
- 3) Use Bisection method to find out the root of  $x - \sin x - 0.5 = 0$  between 1 and 2?
- 1.497
  - 1.947
  - 1.479
  - 1.974
- 4) What is the name of a primary function?
- Name of M-file
  - Name of script file
  - Name of help file
  - Name of private file
- 5) The Bisection method is known as?
- Binary chopping
  - Quaternary chopping
  - Tri region chopping
  - Hex region chopping
- 6) Find a root of  $f(x) = 3x + \sin x - e^x = 0$ . Use 6 iterations to find the approximate value of  $x$ ?
- 0.3605
  - 0.3650
  - 0.3615
  - 0.3655
- 7) A function is defined as  $f(x) = x^2 - 3$ . Between the interval  $[1, 2]$  find the root of the function by bisection method?
- 1.7334
  - 1.7364
  - 1.7354
  - 1.7344
- 8) Using Bisection method find the root of  $\cos(x) - x + e^x = 0$  with  $a=0$  and  $b=1$ ?
- 0.617
  - 0.527
  - 0.517
  - 0.717

- 9) What happens if we don't stop the implementation of the hold function?
- Nothing happens
  - MATLAB helps on generating multiple plots in the same window
  - Error is generated
  - Plot function wont work
- 10) To print a newline in a f print f you must use the following escape character?
- \t
  - \n1
  - \nxt
  - \n
- 11) What is the default increment value in a for loop?
- 0
  - 1
  - An increment value is necessary
  - o/1
- 12) How many times will the following loop run? ( hint For i=1:5 if (i<3) break)
- no output due to same error
  - 1 times
  - 0 times
  - 3 times
- 13) The end statement is given multiple times in?
- Multiple elseif
  - Nested if
  - Elseif
  - If
- 14) While developing a switch case structure the value for case can be?
- Single only
  - Multiple
  - Infinite
  - 0
- 15) An example of function whose derivative (any order) with respect to x is never 0, in MATLAB ?
- $\sin(x)$
  - $x^n$
  - $e^n$
  - does not exist
- 16) The output of the following code will be?
- Error
  - $t^2$
  - $t$
  - $t^2+1$

17) what is the recurrence relation for 1, 7, 31, 127, 499?

- a)  $b_{n+1} = 5b_{n-1} + 3$
- b)  $b_n = 4b_n + 71$
- c)  $b_n = 4b_{n-1} + 3$
- d)  $b_n = b_{n-1} + 1$

18) Find the value of  $a_1$  for the recurrence relation  $a_n = 2a_{n-1} + 3$ , with  $a_0 = 67$

- a) 320
- b) 221
- c) 141
- d) 65

19) Model which is a logical structure based on a theory is?

- a) Deductive model
- b) Inductive model
- c) Floating modal
- d) Constant model

20) Homogeneous system of linear equation has a unique solution (the trivial solution) if and only if its determinant is?

- a) Non-zero
- b) Zero
- c) -2
- d) -1



SUBJECT: Mathematical Modelling and Simulation with MATLAB  
 Name of the Candidate: Arjumand Sultana  
 Class : M.Sc I sem

Max. Marks: 60

Q.N	Options	Q.N	Options
1 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	11 ✓	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)
2 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	12 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input checked="" type="radio"/> (c) <input type="radio"/> (d)
3 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	13 ✓	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)
4 ✗	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	14 ✓	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)
5 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	15 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input checked="" type="radio"/> (d)
6 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input checked="" type="radio"/> (c) <input type="radio"/> (d)	16 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)
7 ✓	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	17 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input checked="" type="radio"/> (c) <input type="radio"/> (d)
8 ✗	<input type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input checked="" type="radio"/> (d)	18 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input checked="" type="radio"/> (c) <input type="radio"/> (d)
9 ✓	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	19 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)
10 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input checked="" type="radio"/> (d)	20 ✓	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)

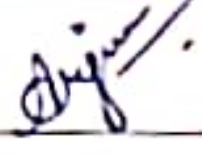
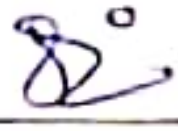
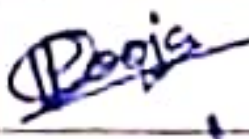
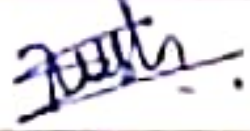
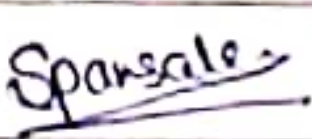
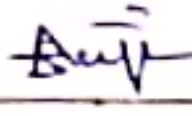

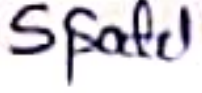
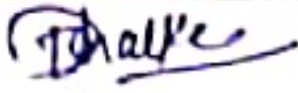
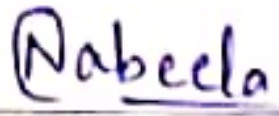

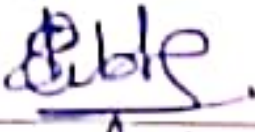
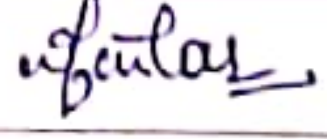
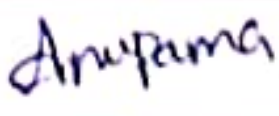

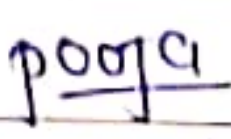
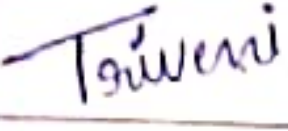
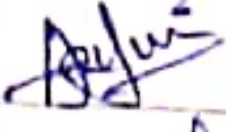
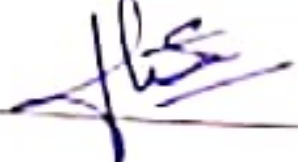
Arju

Sign of candidate

sign of Invigilator

K.R.E Society's  
Karnatak Arts, Science and Commerce College Bldar  
Department Of Mathematics  
Examination attendance List 2021-22

Class: M.Sc I sem(Batch-1)

Sl.No	Student Name	Signature
1.	Arjumand Sultana	
2.	Devi	
3.	Pooja	
4.	Sushma	
5.	Sunita	
6.	Ambika	
7.	Sultana Begum	
8.	Sudharani	
9.	Depika	
10.	Nabeela Sadaf	
11.	Stella Kiran	
12.	Srusti	
13.	Vaishnavi	
14.	Anupama Holla	
15.	Kanchana	
16.	Pooja	
17.	Triveni	
18.	Akshata	
19.	Shireen Fatima	

20.	Beena	Beena.
21.	Arati	Arati
22.	Chandana	
23.	Masarath Begum	Masarath
24.	Brajwal D. Nagthubhy	Brajwal
25.		



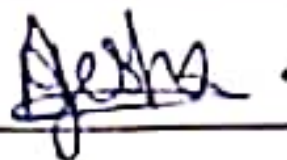
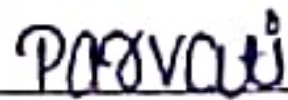
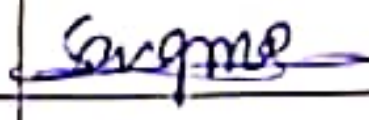
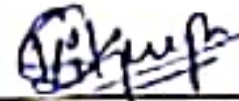
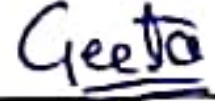
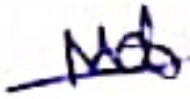
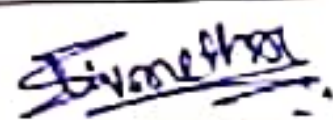
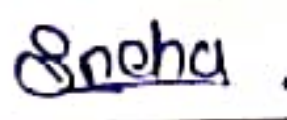



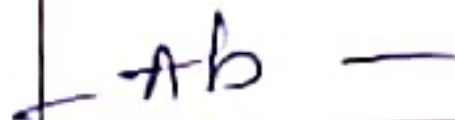

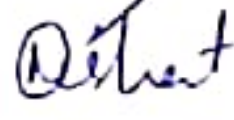
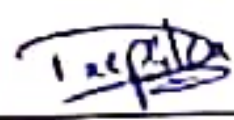
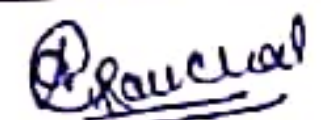

  
Invigilator Sign

  
HOD

  
Principal  
**PRINCIPAL**  
Karnataka Arts Sci. & Com. College  
BIDAR-585401


K.R.E Society's  
Karnatak Arts, Science and Commerce College Bidar  
Department Of Mathematics  
Internal assessment attendance List 2021-22

Class: M.Sc III sem (Batch-2)

Sl.No	Student Name	Signature
1.	Nivedita Ravikumar	
2.	Mohd Jafar Md Mvzammil	
3.	Ayesha Siddiqua Anwar pasha	
4.	Parvati Basavaraj	
5.	Sangmesh Somnath	
6.	Vaishnavi Chandrakanth	
7.	Math Geeta Gurupadayya	
8.	Md Faruq Md Isaq	
9.	Shivaleela Ramesh	
10.	Sneha Somnath	
11.	Supriya Veerbhadrayya	
12.	Raheem Unnisa Begum	
13.	Lokesh Eashappa	
14.	Qurratul Ain MA Hakeem	
15.	Summaya Anjum Md. Ayub	
16.	Nishat Anjum Md Salauddin	
17.	Deepika Baswaraj	
18.	Akshata Gnyandev Panchal	
19.	Usha Suresh Gouli	

20.	Siddu Dhulappa	<u>Siddu</u>
21.	Vaishali Patil	<u>Vaishali</u>
22.	Vijaylaxmi Maruti	<u>Vijaylaxmi</u>
23.	Rangurani Madanlal	<u>Rangurani</u>
24.	Shivaleela Shivaraj	<u>Shivaleela</u>
25.	Vaishali Sanjukumar	<u>Vaishali</u>
26.	Anwar Pasha Ahmad Pasha	<u>Anwar Pasha</u>

  
Staff incharge

  
HQD  
Dept. of Mathematics  
Karnatak PG & UG College  
BIDAR

  
Principal  
PRINCIPAL  
Karnataka Arts Sci. & Com. College  
BIDAR-585401



K.R.E Society's  
KARNATAK ART, SCIENCE AND COMMERCE COLLEGE BIDAR  
ADD-ON COURSE EXAMINATION



DEPARTMENT OF MATHEMATICS

SUBJECT: Mathematical Modelling and Simulation with MATLAB

Time: 10 AM TO 12 PM

Max. Marks: 60

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### INSTRUCTIONS TO THE CANDIDATE

1. The paper consist of 30 multiple choice question with 4 answers. Before starting to answer the question, verify whether you got correct test booklet and the test booklet contains 30 questions with answer.
2. Each question has four alternative answer A, B, C, D. the correct answer has to chosen only one and you have to tick ( $\checkmark$ ) the answer.
3. The candidate shall use only Blue / black pen.
4. There is no negative making for the incorrect answer.
5. If a candidate wishes to leave examination during the middle of the examination, he will not be allowed to take the test booklet with him.
6. A candidate is forbidden from carrying a Mobile phone, calculator, I-Phone or any other electronic device into examination hall. In case accidently a candidate has brought any of such things, he shall hand it over the room supervisor before the commencement of the examination and collect it back after the completion of the examination.
7. In case candidate is found to process any such devices, he will booked under the Malpractice case.

- 1) What is matlab?
- Programming platform
  - Operation system
  - Mobile os
  - first computer
- 2) Which is the invalid variable name in matlab?
- xb
  - n factorial
  - 6x
  - Last value
- 3) In mat lab (\*) is used for?
- multiplying two arrays
  - adding two arrays
  - both A and B
  - none of the above
- 4) Index of an Array in mat lab starts with ?
- one
  - zero
  - both A and B
  - both all of the above
- 5) Does the plot function take multiple arguments to a plot.
- True
  - False
  - Sometimes
  - Only if the function are in time Domino
- 6) Can we have multiple 3d plots in MATLAB?
- Yes
  - No
  - Maybe
  - Cannot be determined
- 7) what symbol precedes all comments in MATLAB?
- "
  - %
  - //
  - None of the above
- 8) Which of the following is not a predefined variable in MATLAB?
- PS
  - INF
  - I
  - Gravity

- 9) What happens if we don't stop the implementation of the hold function?
- Nothing happens
  - MATLAB helps on generating multiple plots in the same window
  - Error is generated
  - Plot function wont work
- 10) To print a newline in a fprintf you must use the following escape character?
- \t
  - \n1
  - \next
  - \n
- 11) What is the default increment value in a for loop?
- 0
  - 1
  - An increment value is necessary
  - 0/1
- 12) How many times will the following loop run? ( hint For i=1:5 If (i<3) break)
- no output due to same error
  - 1 times
  - 0 times
  - 3 times
- 13) The end statement is given multiple times in?
- Multiple elseif
  - Nested if
  - Elseif
  - If
- 14) While developing a switch case structure the value for case can be?
- Single only
  - Multiple
  - Infinite
  - 0
- 15) An example of function whose derivative (any order) with respect to x is never 0, in MATLAB ?
- Sin(x)
  - $x^n$
  - $e^n$
  - does not exist
- 16) The output of the following code will be?
- Error
  - $t^2$
  - t
  - $t^2+1$

17) what is the recurrence relation for 1, 7, 31, 127, 499?

- a)  $b_{n+1} = 5b_{n-1} + 3$
- b)  $b_n = 4b_n + 71$
- c)  $b_n = 4b_{n-1} + 3$
- d)  $b_n = b_{n-1} + 1$

18) Find the value of  $a_4$  for the recurrence relation  $a_n = 2a_{n-1} + 3$ , with  $a_0 = 6$ ?

- a) 320
- b) 221
- c) 141
- d) 65

19) Model which is a logical structure based on a theory is?

- a) Deductive model
- b) Inductive model
- c) Floating modal
- d) Constant model

20) Homogeneous system of linear equation has a unique solution (the trivial solution) if and only if its determinant is?

- a) Non-zero
- b) Zero
- c) -2
- d) -1

21)  $p(s=1/x) = 1/(1+\exp(-x/t))$ , where  $s$  is the output given the activation  $x$  is a?

- a) Sigma network
- b) Stochastic network
- c) Hopfield network
- d) None of the above

22) Where does a stochastic network exhibits stable states?

- a) At any temperature
- b) Above critical temperature
- c) At critical temperature
- d) Below critical temperature

23) Decimal places then in the calculation of the iteration process we need to use?

- a) 4 decimal places
- b) 3 decimal places
- c) 5 decimal places
- d) 6 decimal places

24) Calculate if we want to give our answer correct to 3 decimal places ?

- a) When 2 successive iteration give the same answer correct to 4 decimal places
- b) When 2 successive iteration gives the same answer correct to 2 decimal places
- c) When 2 successive iteration gives the same answer correct to 3 decimal places
- d) When 2 successive iteration give th same answer correct to 1 decimal places

25) What is the basic difference between M-files and MAT-files ?

- a) There is no difference
- b) MAT files are binary data files while m-files are ASC II test files
- c) M files are binary data files while MAT-files are ASC II test files
- d) There is no such thing as MAT files

26) What does the echo command do ?

- a) It echoes
- b) It shows the comments presents in script files
- c) It shows the commends and commends in MAT-files
- d) Its shows the commends and the comments in M-files

27) In which of the following categories can we put Bisection method?

- a) Bracket solutions
- b) Graphical solution
- c) Empirical solution
- d) Trial solutions

28)  $\frac{\partial^2 A}{\partial^2 T^2}$  Represents?

- a) First order ODE
- b) Second order ODE
- c) Third order ODE
- d) Nth order ODE

29)  $-\sin\beta \frac{\partial u}{\partial x} =$

- a)  $\frac{\partial}{\partial x} \cos\beta$
- b)  $\frac{\partial}{\partial x} \cos x$
- c)  $\frac{\partial}{\partial \beta} \cos x$
- d)  $\frac{\partial \beta}{\partial x} \cos\beta$

30) The Bisection method is also known as?

- a) Binary chopping
- b) Quaternary chopping
- c) Tri region chopping
- d) Hex region chopping

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**KARNATAK ART, SCIENCE AND COMMERCE COLLEGE BIDAR**  
 ADD-ON COURSE EXAMINATION  
DEPARTMENT OF MATHEMATICS

56  
60

**SUBJECT:** Mathematical Modelling and Simulation with MATLAB

Name of the Candidate: Ambika

Class : M.Sc I Sem.

Max. Marks: 60

Q.N	Options	Q.N	Options	Q.N	Options
1 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	11 ✓	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	21 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input checked="" type="radio"/> (c) <input type="radio"/> (d)
2 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input checked="" type="radio"/> (c) <input type="radio"/> (d)	12 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input checked="" type="radio"/> (c) <input type="radio"/> (d)	22 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)
3 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	13 ✓	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	23 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input checked="" type="radio"/> (c) <input type="radio"/> (d)
4 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	14 ✓	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	24 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input checked="" type="radio"/> (c) <input type="radio"/> (d)
5 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	15 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input checked="" type="radio"/> (d)	25 ✓	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)
6 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	16 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	26 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input checked="" type="radio"/> (d)
7 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input checked="" type="radio"/> (d)	17 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input checked="" type="radio"/> (c) <input type="radio"/> (d)	27 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)
8 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input checked="" type="radio"/> (d)	18 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input checked="" type="radio"/> (c) <input type="radio"/> (d)	<del>28</del>	<input type="radio"/> (a) <input type="radio"/> (b) <input checked="" type="radio"/> (c) <input type="radio"/> (d)
9 ✓	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	19 ✓	<input checked="" type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	29 ✓	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)
10 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input checked="" type="radio"/> (d)	<del>20</del>	<input type="radio"/> (a) <input checked="" type="radio"/> (b) <input type="radio"/> (c) <input type="radio"/> (d)	30 ✓	<input type="radio"/> (a) <input type="radio"/> (b) <input type="radio"/> (c) <input checked="" type="radio"/> (d)

Ambika  
 sign of candidate

sign of Invigilator

KRE Society's

Karnatak Arts, Science and Commerce College, Bidar

Department of Mathematics

Add-on Course on Mathematical Modeling and Simulation  
with MATLAB

Marks List (2021-22)

Class: M.Sc I sem(Batch-1)

SL No	Name of the student	Assignment	Examination	Total
1	Arjumand Sultana	32	50	82
2	Devi	38	46	84
3	Pooja	28	50	78
4	Sushma	32	52	84
5	Sunita	30	56	86
6	Ambika	36	60	96
7	Sultana Begum	30	42	72
8	Sudharani	28	49	77
9	Depika	32	38	70
10	Nabeela Sadaf	30	36	66
11	Stella Kiran	29	58	87
12	Srusti	30	56	86
13	Vaishnavi	32	52	84
14	Anupama Holla	36	51	87
15	Kanchana	37	49	86
16	Pooja	34	52	86
17	Triveni	35	55	90
18	Akshata	29	55	84
19	Shireen Fatima	30	51	71
20	Beena	20	25	45
21	Arati	30	40	70

22	Chandana	Absent	Absent	-40-
23	Masarath Begum	20	40	60
Sign of Faculty				

*Padmini*

HOD

Dept: Mathematics  
 Head of Department  
 Bidar College



Principal  
**PRINCIPAL**  
 Karnataka Arts Sci. & Com. College  
 BIDAR-585101



KRE Society's  
Karnatak Arts, Science and Commerce College, Bidar  
Department of Mathematics

Add-on Course on Mathematical Modeling and Simulation with  
MATLAB

Marks List (2021-22)  
Class: M.Sc IIIsem(Batch-2)

SL. No	Name of the student	Assignment	Examination	Total
1	Nivedita Ravikumar			
2	Mohd Jafar Md Mvzammil	38	42	80
3	Ayesha Siddiqua Anwar pasha	39	57	96
4	Parvati Basavaraj	40	43	83
5	Sangmesh Somnath	39	50	89
6	Vaishnavi Chandrakanth	29	42	71
7	Math Geeta Gurupadayya	38	45	83
8	Md Faruq Md Isaq	25	32	57
9	Shivaleela Ramesh	26	40	66
10	Sneha Somnath	36	59	95
11	Supriya Veerbhadrappa	32	56	88
12	Raheem Unnisa Begum	39	52	91
13	Lokesh Eashappa	39	51	90
14	Qurratul Ain MA Hakeem	29	50	79
15	Summaya Anjum Md. Ayub	<del>Absent</del>	<del>Absent</del>	<del>Ab</del>
16	Nishat Anjum Md Salauddin	38	49	87
17	Deepika Baswaraj	26	43	69
18	Deepika Baswaraj	30	48	78
19	Akshata Gnyandev Panchal	37	59	96
20	Usha Suresh Gouli	39	55	94
21	Siddu Dhulappa	28	45	73

21	Vaishali Patil	32	46	84
22	Vijaylaxmi Maruti	36	50	86
23	Rangurani Madanlal	32	52	84
24	Shivaleela Shivaraj	36	55	91
25	Vaishali Sanjukumar	38	59	97
26	Anwar Pasha Ahmad Pasha	39	55	94
Sign of Faculty				

*Padmanabha*

HOD

Dept. of  
Marathi  
College

*[Handwritten Signature]*

Principal  
PRINCIPAL

Vernataka Arts, Sci. & Com. College

KARNATAK ARTS, SCIENCE AND COMMERCE COLLEGE, BIDAR  
Department of Mathematics  
ADD-ON Course on Mathematical Modelling and Simulation  
with MATLAB



Report

Name of the Course: Mathematical Modelling and Simulation with MATLAB

Name of the Department: Mathematics

Name of the B.O.S: Dr.Hemavati Patil (Asst.Proffessor)

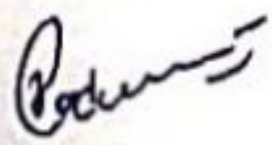
Number of Student: 25(B1), 25(B2)

BOS Meeting Date: 05/01/22

Start date of course: 17/01/2022

End date of course: 10/05/2022

Department of Mathematics conducted Add-on course on Mathematical Modelling and Simulation with MATLAB. Mathematical Modelling helps to student's research methodology and plotting graph, preparing the model, toolkit and create analyses implements algorithm for solving numerical problems of continuous mathematics program, all competitive examination is one of the most scoring sections as well as students who are preparing for the upcoming research. At the end of term we are conducting examination on Mathematical modelling and simulation with Matlab, declared the result .

  
HOD  
Dept. of Mathematics  
Karnatak PG & UG College  
BIDAR

  
PRINCIPAL  
Karnataka Arts Sci. & Com. College  
BIDAR-585401

ಕರ್ನಾಟಕ ಕಲಾ, ವಿಜ್ಞಾನ ಹಾಗೂ ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ, ಬಿದರ

KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR

Estd 1970

(Affiliated to Gulbarga University, Kalaburagi)

College with Potential for Excellence Status Awarded by UGC New Delhi

ISO 9001 : 2015



**Golden Jubilee Celebration - 1970-2020**

Date: 05-01-2022

## LETTER OF APPRECIATION

Respected Dr.Hemavati Patil Assistant Professor, Govt.First Grade college Manhali, Bidar. We have appreciate the contribution of serving as BOS for the add on course "Mathematical Modeling and Simulation with MATLAB" organized by Department of Mathematics, KRE Society's Karnatak Arts, Science and Commerce College, Bidar on 05-01-2022 at 11 AM.

Your wonderful Knowledge and guidelines about the unparallel. We are looking for forward for further events in future.

Thank you,

HOD

Dept. of Mathematics  
Karnatak Arts, Science & Commerce College  
BIDAR

PRINCIPAL  
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Commerce College, BIDAR.

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**DEPARTMENT OF COMPUTER SCIENCE**  
YEAR OF ESTABLISHMENT : 1985-86

Project/Workshop	Year/Date	Status
B.Sc.	1985-86	Not Planned
B.C.A		2001-03
MCA		2002-03
B.A.		2010-11
M.P.A		2013-14
M.B		2013-14

**STUDENTS STRENGTH**

Year	Strength
2012-2013	511
2013-2014	537
2014-2015	
2015-2016	
2016-2017	
2017-2018	

**DEPARTMENT OF COMPUTER SCIENCE**  
CONFERENCE/WORKSHOP

No.	Year	Topic of the Seminar/Conference/Workshop
1	2012	Workshop on Trends in Computer Science with IAS & IISc Bangalore on 07/11/2012
2	2012	Workshop on Computer Science & Research on 14/10/2012
3	2012	Seminar on Research in Trends in Computer Science on 07/11/2012
4	2012	Digital India week program organized by P.A. DEPARTMENT of Computer Science at Association with special program Project on 17/11/2012
5	2012	National Workshop on Cloud Computing for Big Data Applications on 12/12/2012
6	2012	Seminar on Trends in Computer Science on 14/10/2012
7	2012	Workshop on Big Data Analytics on 12/12/2012
8	2012	Workshop on Big Data Analytics on 12/12/2012
9	2012	Workshop on Big Data Analytics on 12/12/2012
10	2012	Workshop on Big Data Analytics on 12/12/2012



**DEPARTMENT OF COMPUTER SCIENCE**  
YEAR OF ESTABLISHMENT : 1985-86

Course Offered	Grant Aided	Self Financed
B.Sc.	1985-86	-
B.C.A	-	2001-02
PGDCA	-	2002-03
M.Sc.	-	2010-11
M.Phil	-	2013-14
Ph.D.	-	2013-14

**STUDENTS STRENGTH**

Year	Strength
2012-2013	511
2013-2014	537
2014-2015	480
2015-2016	482
2016-2017	467
2017-2018	503

**DEPARTMENT OF COMPUTER SCIENCE**  
**CONFERENCES/WORKSHOP/TRAINING'S ORGANIZED**

Sl. No.	Year	Title of the Seminar/Conference/Workshop	Funding Agency	Grant Received(Rs.)
1	2012	Workshop on Trend in Computer Vision in association with IEEE computer society of India on 07/11/2012	Self Financed	Rs. 1,000/-
2	2013	One day seminar on Fundamental of Research in Computer Science on 12/10/2013	Self Financed	Rs. 4,000/-
3	2014	Seminar on E Resources for Teaching, Learning and Research on 2/11/2014	Self Financed	Rs. 29,000/-
4	2015	Digital India week program organized by P & department of computer science in association with speakers tutorial Project, IIT Mumbai on 7/7/2015	Self Financed	Rs. 1,000/-
5	2015	National Workshop on Cloud Computing for Big Data Applications 09/12/2015	Self Financed	Rs. 19,000/-
6	2016	National Seminar on Recent Trends in Image Processing and Pattern Recognition (IITM 2016) on 2 & 3 April - 2016	UGC Sponsored	Rs. 1,38,750/-
7	2016	National Workshop Series 2016 on Android App Development in association with IITM on 09/2016	Self Financed	Rs. 52,500/-
8	2016	Workshop on Data Analytics in Matlab	Self Financed	Rs. 14,200/-
9	2016	Workshop on Cloud Computing on 17 Dec 2016	Self Financed	Rs. 3,700/-
10	2017	Workshop on Cloud Computing on 17/08/2017	Self Financed	Rs. 1,000/-

**2012-2013**

Category	Value
Total Google Scholar H-Index	1
Total Google Scholar Citations	1
Total Journal Publications	1
Total Publications in Proceedings	1
Total Student Publications (Pro.)	0
Total Documents indexed in Scopus	2
Total Scopus H-Index	04
<b>Projects, Resource Person, Collaborations</b>	
Minor research projects	0.1
Minor Research Project	1.5
Collaboration	NMI
International Visit	2
Books Published	Waa
Resource Person	17
Prize by Students	2
Projects	430

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