Jamal Mohamed College (Autonomous)
Tiruchirappalli -620 020.

START DATE: 26/07/2021
END DATE: 31/07/2021

DURATION 30HRS

PG RESEARCH DEPARTMENT OF MATHEMATICS OFFERED

VALUE ADDED COURSES

COURSE CODE	COURSE TITLE
21UMAVAC1	Sage Math
21UMAVAC2	Scilab

GOALS: Pure mathematics is the world's best game.

**For Futher Details
Head of the Department**

DEPARTMENT OF MATHEMATICS
VALUE ADDED COURSE

Semester	Course Code	Course Title	Hours
III	21UMAVAC1	SAGE MATH	30

Course Outcome

At the end of the course, the student will be able to:
CO.1. Using SageMath as a calculator.
CO.2. Implement and illustrate 2-D graphs and 3-D graphs.
CO.3. Solving mathematical problems and to plot using SageMath.
CO.4. Implement SageMath using templates and exceptional and handling concepts.
CO.5. Make use of theoretical concepts to solve problems and visualize the output.

List of Practical

1. Finding all local extrema and inflection points of a function.

2. Creating and plotting 2-D graphs and 3-D graphs.

3. Finding the minimum surface area of given surface using package.

4. Finding the approximate roots using Newton's method.

5. Plotting and finding area between curves using integrals.

6. Finding the average of a function.

7. Finding the volume of solid of revolution.

8. Finding the solution for a system of linear equations.

9. Finding the divergence and curl of vector valued functions.

10. Using differential calculus to analyse a quintic polynomials features, for finding the optimal graphing window.

Books for Reference:
1. Razvan A. Mezei, An Introduction to SAGE Programming: With Applications to SAGE, Wiley, 2016

2. https://doc.sagemath.org/pdf/en/tutorial/SageTutorial.pdf

Semester	Course Code	Course Title	Hours
V	21UMAVAC2	SCILAB	30

Course Outcome

At the end of the course, the student will be able to:

CO.1. Evaluate, analyse and plot results.

CO.2. Develop programs in SciLab

CO.3. Understanding of linear algebra and numerical methods

CO.4. Analyse various SciLab commands

CO.5. Implement and illustrate 2-D graphs and 3-D graphs.

List of Practical

1. Check whether the following Boolean statements are true or false based on the values of a, b, c, x, and y given above.

    (i) a > c (ii) a = b (iii) $(2a+b)/x^2 < 1$ (iv) $x^2 + 2ab + b^2 \leq 23$ (v) 2ac = 2cb

2. Determine the result of the following calculations if a = 2.3, b = -2.3, c= $\pi/2$, x = $2/\pi$, and y = $\sqrt{3}$:

    (i) $(a^2 + bc + x)$ (ii) sin(c) + y/c (iii) (a+c)/(x+y) (iv) 1/(cos(c) + ln(x))

    (v) $(a+c)^3$ /b

3. For the vectors u and v, calculate the following:

    (i) w = u+v   (ii) r = u/.v   (iii) z = v*u   (iv) t = v*.u

4. Write a program for the following operations of the matrices A, B and C :

    (i) Sum of two matrices   (ii) Product of two matrices   (iii) Product of Three matrices

5. Verify whether the given matrix is singular or non-singular and compute its inverse if exists.

6. Write a programme for Cramer's rule to solve the simultaneous equations (maximum of three unknowns).

7. Write a programme for Gauss Jacobi iteration Method to solve the system of linear equations.

8. Solving the ordinary differential equations with initial condition and solving the system of ordinary differential equations.

9. Creating and plotting 2-D graphs.

10. Creating and plotting 3-D graphs.

Book for Reference:

1. Er. Hema Ramachandran and Dr.Achutsankar Nair, SCILAB , S. Chand Publishers, 2011.
2. Stephen L. Campbell, Jean-Philippe Chancelier, and Ramine, Modelling and Simulation in Scilab/Scicos, 1 st Edition, Springer Publication, 2005.

II B.Sc. Mathematics (2021-2022) (online Mode)

Value Added Course Attendance Sheet (SageMath)

S.No.	Roll No.	Name	26.07.21	27.07.21	28.07.21	29.07.21	30.07.21	31.07.21
1.	20UMA001	AHIL AHAMEDA V	A	P	P	P	P	A
2.	20UMA002	KAMILHUSSAIN M	P	P	P	P	P	P
3.	20UMA003	AJILAN S	A	P	P	P	P	P
4.	20UMA004	MURUGAN M	P	P	P	P	P	P
5.	20UMA005	ABDUL MALIKM	P	A	P	A	P	A
6.	20UMA006	ANAND S	P	P	P	P	P	P
7.	20UMA007	RIYAS KHAN J	P	P	P	P	P	P
8.	20UMA008	DHANUSH M	P	P	P	P	P	P
9.	20UMA009	DHAYANITHI K	P	P	P	P	P	P
10.	20UMA010	ABDULRAHMAN A	P	P	P	P	P	P
11.	20UMA011	UMMER Y	P	P	P	A	P	P
12.	20UMA012	BARATH R	P	P	P	P	P	P
13.	20UMA013	PRAVIN KUMARA R	P	P	P	A	P	P
14.	20UMA014	ANASMOHAMED A S	P	A	P	P	P	P
15.	20UMA015	THIYANESHWAR C P	P	P	P	P	P	P
16.	20UMA016	PARTHIBAN N	P	P	P	P	P	P
17.	20UMA017	ARULPRASATHR	P	P	P	A	P	P
18.	20UMA018	SILAMBARASAN M	A	P	P	P	A	P
19.	20UMA019	ARUNKUMAR A	P	P	P	P	P	P
20.	20UMA020	MOAHAMEDHARUN RASITH H	P	P	P	P	P	P
21.	20UMA021	VIVEKANANTHAN R	P	P	P	P	P	P
22.	20UMA022	KUMARESAN K	P	P	P	P	A	P
23.	20UMA023	UDHAYAKUMAR V	P	P	P	P	A	P
24.	20UMA024	MOHAMEDANAS M	P	P	P	P	P	P
25.	20UMA025	AHAMEDKHANK	P	P	P	A	A	A
26.	20UMA026	TAMIZHARASAN J	P	P	P	P	P	P
27.	20UMA027	ANASH N	P	P	P	P	P	P
28.	20UMA028	SIVAPRAKASHR	P	P	P	P	P	P
29.	20UMA029	MANOJKUMART	A	P	P	P	P	P
30.	20UMA030	SATHIK ALIUMARMUKTHAR M	A	P	P	P	P	P
31.	20UMA031	SURESHKUMAR C	P	P	P	P	P	P
32.	20UMA032	PRAVEEN B	P	P	P	P	P	P
33.	20UMA033	NITHISHKUMAR T	P	P	P	P	P	P
34.	20UMA034	JACKSAN D	P	P	P	P	P	P
35.	20UMA035	SHIYADH S	P	P	P	P	A	P
36.	20UMA036	MOHAMEDIBRAHIM M	P	P	P	P	A	P
37.	20UMA037	ASRARAHAMED N	P	P	P	P	P	P
38.	20UMA038	PRAVEENKUMAR S	P	P	P	P	P	P
39.	20UMA039	MUHAMMEDHUNAIF K.S	P	P	P	P	P	P
40.	20UMA040	MOHAMMEDSHARUK K	A	A	A	A	A	A
41.	20UMA041	KISHOREKUMAR M	P	P	P	P	P	P
42.	20UMA042	MOHAMEDGANI S	P	P	P	P	P	P
43.	20UMA043	MUKESHKANNAN M	P	P	P	P	P	P
44.	20UMA044	RAJKUMAR M	P	P	P	P	P	P
45.	20UMA045	ABDUL BASITHS	P	P	P	P	P	P

S.No.	Roll No.	Name	26.07.21	27.07.21	28.07.21	29.07.21	30.07.21	31.07.21
46.	20UMA046	SANJAI K	P	P	P	P	P	P
47.	20UMA047	RIAZUDEEN S	P	P	P	P	P	P
48.	20UMA048	RAKESHKUMAR J	A	P	P	P	P	A
49.	20UMA049	SYEDSHABBERAHAMED S	P	A	P	A	A	A
50.	20UMA050	GOPINATH S	P	P	P	A	A	A
51.	20UMA051	MANIKANDAN K	P	P	P	P	P	P
52.	20UMA052	BALAN S	P	P	P	P	P	P
53.	20UMA053	MANIMARAN	P	P	P	P	A	A
54.	20UMA054	VIGNESH	A	P	P	P	A	A
55.	20UMA055	VIGNESH	A	P	P	A	P	P
56.	20UMA056	SHEIKABDULLAH	P	P	P	P	A	P
57.	20UMA057	CHANDRU	A	P	P	A	P	A
58.	20UMA123	RAHUL J	P	P	P	P	P	A

Tutor In-Charge

(Dr. M. MOHAMED ALTHAF)

Head of the Department

Dr. R. JAHIR HUSSAIN
Associate Professor & Head
Department of Mathematics
Jamal Mohamed College (Autonomous)
Tiruchirappalli-620 020

II B.Sc. Mathematics (2021-2022)

Value Added Course Grade (SageMath)

S.No.	Roll No.	Name	Mark	Grade
1.	20UMA001	AHIL AHAMEDA V	25	-
2.	20UMA002	KAMILHUSSAIN M	90	O
3.	20UMA003	AJILAN S	10	-
4.	20UMA004	MURUGAN M	40	C
5.	20UMA005	ABDUL MALIKM	AAA	-
6.	20UMA006	ANAND S	45	C
7.	20UMA007	RIYAS KHAN J	30	-
8.	20UMA008	DHANUSH M	20	-
9.	20UMA009	DHAYANITHI K	40	C
10.	20UMA010	ABDULRAHMAN A	AAA	-
11.	20UMA011	UMMER Y	20	-
12.	20UMA012	BARATH R	50	B
13.	20UMA013	PRAVIN KUMARA R	20	-
14.	20UMA014	ANASMOHAMED A S	55	B
15.	20UMA015	THIYANESHWAR C P	65	B
16.	20UMA016	PARTHIBAN N	55	B
17.	20UMA017	ARULPRASATHR	50	B
18.	20UMA018	SILAMBARASAN M	10	-
19.	20UMA019	ARUNKUMAR A	40	C
20.	20UMA020	MOAHAMEDHARUN RASITH H	20	-
21.	20UMA021	VIVEKANANTHAN R	30	-
22.	20UMA022	KUMARESAN K	10	-
23.	20UMA023	UDHAYAKUMAR V	10	-
24.	20UMA024	MOHAMEDANAS M	80	A
25.	20UMA025	AHAMEDKHANK	AAA	-
26.	20UMA026	TAMIZHARASAN J	30	-
27.	20UMA027	ANASH N	20	-
28.	20UMA028	SIVAPRAKASHR	90	O
29.	20UMA029	MANOJKUMART	40	C
30.	20UMA030	SATHIK ALIUMARMUKTHAR M	75	A
31.	20UMA031	SURESHKUMAR C	30	-
32.	20UMA032	PRAVEEN B	90	O
33.	20UMA033	NITHISHKUMAR T	65	B
34.	20UMA034	JACKSAN D	70	A
35.	20UMA035	SHIYADH S	40	C
36.	20UMA036	MOHAMEDIBRAHIM M	40	C
37.	20UMA037	ASRARAHAMED N	40	C
38.	20UMA038	PRAVEENKUMAR S	20	-
39.	20UMA039	MUHAMMEDHUNAIF K.S	70	A
40.	20UMA040	MOHAMMEDSHARUK K	AAA	-
41.	20UMA041	KISHOREKUMAR M	50	B
42.	20UMA042	MOHAMEDGANI S	50	B
43.	20UMA043	MUKESHKANNAN M	85	A
44.	20UMA044	RAJKUMAR M	30	C
45.	20UMA045	ABDUL BASITHS	40	-

S.No.	Roll No.	Name	Mark	Grade
46.	20UMA046	SANJAI K	15	-
47.	20UMA047	RIAZUDEEN S	60	B
48.	20UMA048	RAKESHKUMAR J	40	C
49.	20UMA049	SYEDSHABBERAHAMED S	AAA	-
50.	20UMA050	GOPINATH S	AAA	-
51.	20UMA051	MANIKANDAN K	40	C
52.	20UMA052	BALAN S	10	-
53.	20UMA053	MANIMARAN	0	-
54.	20UMA054	VIGNESH	20	-
55.	20UMA055	VIGNESH	AAA	-
56.	20UMA056	SHEIKABDULLAH	30	-
57.	20UMA057	CHANDRU	AAA	-
58.	20UMA123	RAHUL J	10	-

Tutor In-Charge

(Dr. M. MOHAMED ALTHAF)

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Tiruchirappalli-620 020

JAMAL MOHAMED COLLEGE (AUTONOMOUS)
PG AND RESEARCH DEPARTMENT OF MATHEMATICS (SF-WOMEN)
VALUE ADDED COURSE MARK LIST

CLASS : II B.Sc., Mathematics

S.NO	REG NO	ROLL NO	NAME	MARKS OBTAINED	GRADE OBTAINED
1	18UMA089	18UW25023	AARTHI.M	70	A
2	20UMA058	20UW21001	AAFREEN BEGUM.M	74	A
3	20UMA059	20UW21002	AASIYA BEGUM .M	75	A
4	20UMA060	20UW21003	AATHILAKSHMI.M	71	A
5	20UMA061	20UW21004	ABILOSHINI.G	72	A
6	20UMA062	20UW21005	ADHILA AFRIN.A	70	A
7	20UMA063	20UW21006	AFFRIN SAMEERA.A	74	A
8	20UMA064	20UW21007	AFRIN FATHIMA.A	74	A
9	20UMA065	20UW21008	ARSHADHA THAFFEEAA.S.M	74	A
10	20UMA066	20UW21010	AJHAR FATHIMA.M	75	A
11	20UMA067	20UW21011	ALSABANA.S	74	A
12	20UMA068	20UW21012	ANISUL AATHIKA.G	74	A
13	20UMA069	20UW21013	AROCKIA ANTHUVAN JONAPARK.S	75	A
14	20UMA070	20UW21014	ASHIKA IMRANA.A	74	A
15	20UMA071	20UW21015	ASILA.A	74	A
16	20UMA072	20UW21016	ASMA.K	72	A
17	20UMA073	20UW21017	BHAVADHARANI.S	75	A
18	20UMA074	20UW21018	BHUVANESWARI.P	74	A
19	20UMA075	20UW21019	BHUVANESWARI.T	74	A
20	20UMA076	20UW21020	DEEPSIKA SRI.K	74	A
21	20UMA077	20UW21021	DHARANI.T	74	A
22	20UMA078	20UW21022	DURGA DEVI.M	74	A
23	20UMA079	20UW21023	DURGADEVI.V	74	A
24	20UMA080	20UW21024	FAROOK NISHAN	A	-
25	20UMA081	20UW21025	GAYATHRI.R	73	A
26	20UMA082	20UW21026	GEETHA.M	74	A
27	20UMA083	20UW21027	GEETHALAKSHMI.K	74	A
28	20UMA084	20UW21028	GULSHAN BEGUM M.G	74	A
29	20UMA085	20UW21029	HABIBUNNISA.R	74	A
30	20UMA086	20UW21030	HAJIRA BEGUM.S	74	A
31	20UMA087	20UW21031	HARINI.K	74	A
32	20UMA088	20UW21032	INDIRA GANDHI.M	74	A
33	20UMA089	20UW21033	INUL NASRIN.P	74	A
34	20UMA090	20UW21034	JANANEE M.R	75	A
35	20UMA091	20UW21037	KEERTHANA.M	75	A
36	20UMA092	20UW21038	KEERTHANA.R	72	A
37	20UMA093	20UW21039	KEERTHANA.S	74	A
38	20UMA094	20UW21040	KEERTHIKA.L	72	A
39	20UMA095	20UW21041	KEERTHIKA DEVI.R	74	A
40	20UMA096	20UW21043	MAHALAKSHMI.P	72	A
41	20UMA097	20UW21044	MARJUKA FATHIMA.S	73	A
42	20UMA098	20UW21045	MATHUMATHI.J	73	A

43	20UMA099	20UW21046	MOHAMED BEEVI.M	71	A
44	20UMA100	20UW21047	NASHREEN SULTHANA.M	72	A
45	20UMA101	20UW21048	NILOFER NISHA.A	73	A
46	20UMA102	20UW21049	NISHA BEGAM.A	73	A
47	20UMA103	20UW21050	NIVETHA.R	74	A
48	20UMA104	20UW21052	PRIYADARSHINI.L	74	A
49	20UMA105	20UW21053	RABIATHUL BASIRIYA	74	A
50	20UMA106	20UW21054	RESHMA FATHIMA.K	73	A
51	20UMA107	20UW21055	RIFAYA FIRTHOUSE.J	75	A
52	20UMA108	20UW21056	ROSAN YASHMIN.B	74	A
53	20UMA109	20UW21057	ROSHINI.G	73	A
54	20UMA110	20UW21058	SAKTHI SOWMIYA.A	74	A
55	20UMA111	20UW21059	SAMEERA.S	74	A
56	20UMA112	20UW21060	SAMIRA.J	74	A
57	20UMA113	20UW21061	SANKARI.S	72	A
58	20UMA114	20UW21062	SHAFA.S	74	A
59	20UMA115	20UW21063	AJIMA BEGUM .M	75	A
60	20UMA116	20UW21066	ASMI.S	74	A
61	20UMA117	20UW21067	SUVETHA.S	75	A
62	20UMA118	20UW21068	THAHIRA KAUSER M.A	71	A
63	20UMA119	20UW21069	THASLEEM BANU.A	72	A
64	20UMA120	20UW21070	SARUMATHI.K	75	A
65	20UMA121	20UW21072	ARTHI.M	75	A
66	20UMA122	20UW21073	DHANUPRIYA.A	72	A

SIGNATURE OF TUTOR

SIGNATURE OF CO-ORDINATOR
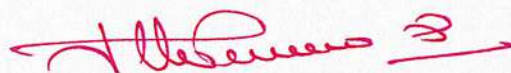
CLASS : II B.Sc., Mathematics

S.NO	REG NO	ROLL NO	NAME	26.07.21	27.07.21	28.07.21	29.07.21	30.07.21	31.07.21
1	18UMA089	18UW25023	AARTHI.M	P	P	P	P	P	P
2	20UMA058	20UW21001	AAFREEN BEGUM.M	P	P	P	P	P	P
3	20UMA059	20UW21002	AASIYA BEGUM .M	P	P	P	P	P	P
4	20UMA060	20UW21003	AATHILAKSHMI.M	P	P	P	P	P	P
5	20UMA061	20UW21004	ABILOSHINI.G	P	P	P	P	P	P
6	20UMA062	20UW21005	ADHILA AFRIN.A	P	P	P	P	P	P
7	20UMA063	20UW21006	AFFRIN SAMEERA.A	P	P	P	P	P	P
8	20UMA064	20UW21007	AFRIN FATHIMA.A	P	P	P	P	P	P
9	20UMA065	20UW21008	ARSHADHA THAFFEEAA.S.M	P	P	P	P	P	P
10	20UMA066	20UW21010	AJHAR FATHIMA.M	P	P	P	P	P	P
11	20UMA067	20UW21011	ALSABANA.S	P	P	P	P	P	P
12	20UMA068	20UW21012	ANISUL AATHIKA.G	P	P	P	P	P	P
13	20UMA069	20UW21013	AROCKIA ANTHUVAN JONAPARK.S	P	P	P	P	P	P
14	20UMA070	20UW21014	ASHIKA IMRANA.A	P	P	P	P	P	A
15	20UMA071	20UW21015	ASILA.A	P	P	P	P	P	P
16	20UMA072	20UW21016	ASMA.K	A	P	A	P	A	A
17	20UMA073	20UW21017	BHAVADHARANI.S	P	P	P	P	P	P
18	20UMA074	20UW21018	BHUVANESWARI.P	P	P	P	P	P	P
19	20UMA075	20UW21019	BHUVANESWARI.T	P	P	P	P	P	P
20	20UMA076	20UW21020	DEEPSIKA SRI.K	P	P	P	P	P	P
21	20UMA077	20UW21021	DHARANI.T	P	P	P	P	P	P
22	20UMA078	20UW21022	DURGA DEVI.M	P	P	P	P	P	P
23	20UMA079	20UW21023	DURGADEVI.V	P	P	P	P	P	P
24	20UMA080	20UW21024	FAROOK NISHAN	A	A	A	A	A	A
25	20UMA081	20UW21025	GAYATHRI.R	A	P	P	P	P	P
26	20UMA082	20UW21026	GEETHA.M	P	P	P	P	P	P
27	20UMA083	20UW21027	GEETHALAKSHMI.K	P	A	A	P	P	A
28	20UMA084	20UW21028	GULSHAN BEGUM M.G	P	P	P	P	P	P
29	20UMA085	20UW21029	HABIBUNNISA.R	P	A	A	P	P	A
30	20UMA086	20UW21030	HAJIRA BEGUM.S	P	P	P	P	P	P
31	20UMA087	20UW21031	HARINI.K	P	P	P	P	P	P
32	20UMA088	20UW21032	INDIRA GANDHI.M	P	P	P	P	P	P
33	20UMA089	20UW21033	INUL NASRIN.P	A	P	P	P	P	P
34	20UMA090	20UW21034	JANANEE M.R	P	P	P	P	P	P
35	20UMA091	20UW21037	KEERTHANA.M	P	P	P	P	P	P
36	20UMA092	20UW21038	KEERTHANA.R	P	P	P	P	P	P
37	20UMA093	20UW21039	KEERTHANA.S	P	P	P	P	P	P
38	20UMA094	20UW21040	KEERTHIKA.L	P	P	P	P	P	P
39	20UMA095	20UW21041	KEERTHIKA DEVI.R	P	P	P	P	P	P
40	20UMA096	20UW21043	MAHALAKSHMI.P	P	P	P	P	P	P
41	20UMA097	20UW21044	MARJUKA FATHIMA.S	P	P	P	P	P	P
42	20UMA098	20UW21045	MATHUMATHI.J	P	P	P	A	P	P

43	20UMA099	20UW21046	MOHAMED BEEVI.M	P	P	P	P	P	A
44	20UMA100	20UW21047	NASHREEN SULTHANA.M	P	P	P	P	P	P
45	20UM101	20UW21048	NILOFER NISHA.A	P	P	P	P	P	P
46	20UMA102	20UW21049	NISHA BEGAM.A	A	P	A	A	P	A
47	20UMA103	20UW21050	NIVETHA.R	P	P	P	P	P	P
48	20UMA104	20UW21052	PRIYADARSHINI.L	P	P	P	P	P	P
49	20UMA105	20UW21053	RABIATHUL BASIRIYA	A	A	A	A	A	A
50	20UMA106	20UW21054	RESHMA FATHIMA.K	P	P	A	P	A	P
51	20UMA107	20UW21055	RIFAYA FIRTHOUSE.J	P	P	P	P	P	P
52	20UMA108	20UW21056	ROSAN YASHMIN.B	P	P	P	P	P	P
53	20UMA109	20UW21057	ROSHINI.G	P	P	P	P	A	A
54	20UMA110	20UW21058	SAKTHI SOWMIYA.A	P	P	P	P	P	P
55	20UMA111	20UW21059	SAMEERA.S	P	P	P	P	P	P
56	20UMA112	20UW21060	SAMIRA.J	P	P	P	P	P	P
57	20UMA113	20UW21061	SANKARI.S	P	P	P	P	P	A
58	20UMA114	20UW21062	SHAFA.S	A	P	P	P	P	P
59	20UMA115	20UW21063	AJIMA BEGUM .M	P	P	P	P	P	P
60	20UMA116	20UW21066	ASMI.S	P	P	P	P	P	P
61	20UMA117	20UW21067	SUVETHA.S	P	P	P	P	P	P
62	20UMA118	20UW21068	THAHIRA KAUSER M.A	A	P	P	P	P	P
63	20UMA119	20UW21069	THASLEEM BANU.A	P	P	P	P	P	P
64	20UMA120	20UW21070	SARUMATHI.K	P	P	P	P	P	P
65	20UMA121	20UW21072	ARTHI.M	P	P	P	P	P	P
66	20UMA122	20UW21073	DHANUPRIYA.A	P	P	P	P	P	P

SIGNATURE OF TUTOR

SIGNATURE OF CO-ORDINATOR

JAMAL MOHAMED COLLEGE (AUTONOMOUS)

College with Potential for Excellence
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(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI – 620 020

Certificate

This is to certify that Mr./Ms. **KAMIL HUSSAIN M**

Of II B.Sc. Mathematics class, Roll No. **20UMA002** *of our College completed a Value Added Course held from 26.07.2021 to 31.07.2021, conducted by the Department of Mathematics*

Title of Course : SAGEMATH

Grade obtained : O

HEAD OF THE DEPARTMENT   **PRINCIPAL**

Grade: 90 and above – O; 70 to 89 – A; 50 to 69 – B; 40 to 49 – C; Below 40

Certificate

This is to certify that Mr./Ms. **MURUGAN M**

Of II B.Sc. Mathematics class, Roll No. **20UMA004** *of our College completed a Value Added Course held from 26.07.2021 to 31.07.2021, conducted by the Department of Mathematics*

Title of Course : SAGEMATH

Grade obtained : C

HEAD OF THE DEPARTMENT   **PRINCIPAL**

Grade: 90 and above – O; 70 to 89 – A; 50 to 69 – B; 40 to 49 – C; Below 40

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Certificate

This is to certify that Mr./Ms. **ANAND S**

Of II B.Sc. Mathematics class, Roll No. **20UMA006** *of our College completed a Value Added Course held from 26.07.2021 to 31.07.2021, conducted by the Department of Mathematics*

Title of Course : SAGEMATH

Grade obtained : C

HEAD OF THE DEPARTMENT   **PRINCIPAL**

Grade: 90 and above – O; 70 to 89 – A; 50 to 69 – B; 40 to 49 – C; Below 40

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TIRUCHIRAPPALLI – 620 020

Certificate

This is to certify that Mr./Ms. **DHAYANITHI K**

Of II B.Sc. Mathematics class, Roll No. **20UMA009** of our College completed a Value Added Course held from 26.07.2021 to 31.07.2021, conducted by the Department of Mathematics

Title of Course   : SAGEMATH

Grade obtained : C

HEAD OF THE DEPARTMENT   **PRINCIPAL**

Grade: 90 and above – O; 70 to 89 – A; 50 to 69 – B; 40 to 49 – C; Below 40

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TIRUCHIRAPPALLI – 620 020

Certificate

This is to certify that Mr./Ms. **BARATH R**

Of II B.Sc. Mathematics class, Roll No. **20UMA012** *of our College completed a Value Added Course held from 26.07.2021 to 31.07.2021, conducted by the Department of Mathematics*

Title of Course : SAGEMATH

Grade obtained : B

HEAD OF THE DEPARTMENT   **PRINCIPAL**

Grade: 90 and above – O; 70 to 89 – A; 50 to 69 – B; 40 to 49 – C; Below 40