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St. JOSEPH'S COLLEGE OF ENGINEERING

St. Joseph's Group of Institutions



TWO DAYS ONLINE INTERNATIONAL FACULTY DEVELOPMENT PROGRAMME ON FUZZY MATHEMATICAL MODELLING

16th June -17th June 2020

REPORT

Report for “Two days online International Faculty
development programme on Fuzzy mathematical modelling “
Organized by Department of Mathematics

Faculty Coordinators:

- 1.Dr.V.Premalatha
- 2.Dr.G.Meenadevi
- 3.Dr.GPurushothaman

Convenor

- 1.Dr.V.Vallinayagam

Co-Convenor

1. Dr.K.Sasikala
2. Dr.H.Geetha

PREAMBLE

A **Two-days** Online Faculty Development Programme on “Fuzzy mathematical modelling” (through GoToMeeting), was conducted during **16th – 17th June 2020**, scheduled from **04.00 pm – 5.30 pm**. It was organized by the **Department of Mathematics**.

Resource Persons:

1. **Dr Sanjay Kumar Tyagi**, Assistant Professor of Mathematics, Department of General studies, Higher College of Technology, Fujairah, UAE, handled the Day 1 Session on A Fuzzy Set Theoretic Approach to Interpretive Structural Modelling..
2. **Dr. Sanjeewa Perera**, Head, Department of Mathematics, R&D centre for mathematical modelling, University of Colombo, Colombo, SriLanka. handled the Day 2 session on Challenges in Modelling infectious diseases Vs Fuzzy Mathematics.

Course content and Online Delivery Mode

Day 1.

A Fuzzy Set Theoretic Approach to Interpretive Structural Modelling

- Classical Set vs Fuzzy Set
- Fuzzy Numbers
- Distance and Similarity Measures of Fuzzy Numbers
- Multi-Criteria Decision Making (MCDM)
- Interpretive Structural Modelling (ISM)
- Fuzzy Interpretive Structural Modelling (FISM)
- MICMAC Analysis (Fuzzy)

Online mode through the link: <https://global.gotomeeting.com/join/307848333>

The poster for Day 1 of the workshop is titled "St. Joseph's College of Engineering St. Joseph's Group of Institutions". It is organized by the Department of Mathematics for a "TWO DAYS ONLINE INTERNATIONAL FDP ON FUZZY MATHEMATICAL MODELLING" held on 16th & 17th June 2020. The specific session for Day 1 is on 16/06/2020, from 4:00 PM to 5:30 PM, with the topic "A Fuzzy Set Theoretic Approach to Interpretive Structural Modelling". The resource person is Dr. Baby Kumar, an Assistant Professor of Mathematics at the Department of Applied Mathematics, Higher College of Technology, Japan. A Zoom meeting link is provided: <https://global.gotomeeting.com/join/307848333>. The poster lists several patrons, including Dr. B. Baby Manojan M.A., M.B.A., Ph.D., and others. The convener is Dr. V. Valliyagaram, and coordinators include Dr. K. Sankala and Dr. H. Geetha.

Day 2.

Challenges in Modelling infectious diseases Vs Fuzzy Mathematics.

- Introduction/Motivation / Why infectious diseases?
- Infectious Diseases / Impact
- Mathematical Modelling
- Hands on Experience: Modelling Dengue
- Fuzzy Mathematics & Application

Online mode through the link: <https://global.gotomeeting.com/join/447091557>

The poster for Day 2 of the workshop is titled "St. Joseph's College of Engineering St. Joseph's Group of Institutions". It is organized by the Department of Mathematics for a "TWO DAYS ONLINE INTERNATIONAL FDP ON FUZZY MATHEMATICAL MODELLING" held on 16th & 17th June 2020. The specific session for Day 2 is on 17/06/2020, from 4:00 PM to 5:30 PM, with the topic "Challenges in Modelling Infectious Diseases Vs Fuzzy Mathematics". The resource person is Dr. Baby Kumar, an Assistant Professor of Mathematics at the Department of Applied Mathematics, Higher College of Technology, Japan. A Zoom meeting link is provided: <https://global.gotomeeting.com/join/447091557>. The poster lists several patrons, including Dr. B. Baby Manojan M.A., M.B.A., Ph.D., and others. The convener is Dr. V. Valliyagaram, and coordinators include Dr. K. Sankala and Dr. H. Geetha.

Online Participation Registration Process for the FDP

“Two days online International Faculty development programme on Fuzzy mathematical modelling “

The Brochure highlighting the necessary information about the online FDP on Fuzzy mathematical modelling was designed and circulated. The Brochure is displayed below:



The brochure is a vertical document with a blue and white color scheme. At the top, it features the logo of St. Joseph's College of Engineering and the text 'You Choose, We Do It'. Below this, it states 'St. Joseph's College of Engineering Organizes TWO DAYS ONLINE INTERNATIONAL FDP ON FUZZY MATHEMATICAL MODELLING 16th & 17th June 2020'. The brochure is divided into two main sections for Day 1 and Day 2. Day 1 (16/06/2020) is titled 'A Fuzzy Set Theoretic Approach to Interpretive Structural Modelling' and features Dr. Ranjay Kumar Triagi as the resource person. Day 2 (17/06/2020) is titled 'Challenges in Modelling Infectious Diseases Vs Fuzzy Mathematics' and features Dr. Sathya Priya as the resource person. A registration link and QR code are provided on the right side. The bottom section lists the Patrons, Convener, Co-Convener, and Facilitators.

St. Joseph's College of Engineering
St. Joseph's Group of Institutions
26th Anniversary 1994-2020

Department of Mathematics
Organizes
TWO DAYS ONLINE INTERNATIONAL FDP
ON
FUZZY MATHEMATICAL MODELLING
16th & 17th June 2020

Day 1: 16/06/2020
Timing: 4:00 PM to 5:30 PM
Topic: A Fuzzy Set Theoretic Approach to Interpretive Structural Modelling
Resource person: Dr. Ranjay Kumar Triagi, Assistant Professor of Mathematics, Department of General Studies, Indian College of Technology, Puzosim, UAE.

Day 2: 17/06/2020
Timing: 4:00 PM to 5:30 PM
Topic: Challenges in Modelling Infectious Diseases Vs Fuzzy Mathematics
Resource person: Dr. Sathya Priya, Head / Department of Mathematics, Research & Development Center for Mathematical Modelling, University of Colombo, Colombo, Sri Lanka.

Registration Link :- <https://forms.gle/VakbmGWYWPdDzccA>
QR Code :-

Free Registration and E-certificate will be provided to all the active participants.
Meeting url to join will be shared to the registered mail id of the participants.
Contact us: 9940999587, 9500978111

Patrons
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.,
Chairman, St. Joseph's Group of Institutions
Mrs. S. Jessie Priya M. Com.,
Managing Director, St. Joseph's Group of Institutions
Dr. B. Shashi Sekar M. Sc.,
Director, St. Joseph's Group of Institutions

Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.
Principal, St. Joseph's College of Engineering
Dr. B. Parvatha Varthini M.E., M.B.A., Ph.D.
Dean, St. Joseph's College of Engineering

Convener
Dr. V. Vallinayagam
Professor & Head of the Department

Co-Convener
Dr. K. Sasikala
Dr. H. Geetha

Facilitators
Dr. V. Premalatha
Dr. G. Meenadevi
Dr. G. Purushothaman

There was no Registration Fee for the participants attending this Online FDP on **Fuzzy mathematical modelling**. Interested participants were requested to register their details in a google form which was shared through the link <https://forms.gle/brop8HfEpT2QGqgt9>. A total of 251 faculty members registered as participants. **164** participants confirmed their registration to attend this online FDP.

Summary of the Participants	Total No of Institutions	96
	Participants other country	6
	Participants other State	38
	Participants within Tamil Nadu	108
	SJCE	12

Confirmed Participation List

S.No.	Name of the Participant	Designation	Organisation	Email id	Phone No.
1	MS.AISHWARYA A	ASSISTANT PROFESSOR	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY	aishwara@srmist.edu.in	9566242286
2	MRS.ALBINA JOSHI	ASSISTANT PROFESSOR	ST. GONSALO GARCIA COLLEGE	albina_j@yahoo.com	9890812021
3	MRS.AMUDHAMALAR V	ASSISTANT PROFESSOR	KONGU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)	amudhamalarv@gmail.com	8526882696
4	DR.ANJALI NAITHANI	ASSISTANT PROFESSOR	AMITY INSTITUTE OF APPLIED SCIENCE	anathani@amity.edu	9968053203
5	DR.G ANITHA	ASSOCIATE PROFESSOR	MIT, ANNA UNIVERSITY	anitha_g@annauniv.edu	9444880422
6	DR.RAM KRISHAN	LECTURER	GOVT. DEGREE COLLEGE KATHUA	ramk123.verma@gmail.com	9797631994
7	MS.ANITHA. N	ASSISTANT PROFESSOR	CAHCET	anithanithi1111@gmail.com	8098814111
8	DR.ANTLINENISHA.B	ASSISTANT PROFESSOR	AGNI COLLEGE OF TECHNOLOGY	antlinenisha@gmail.com	9884939626
9	MR.MANIKANDAN.T	ASSISTANT PROFESSOR	MOHAMED SATHAK ENGINEERING COLLEGE, KILAKARAI	apkmanii@gmail.com	9092553851
10	MR.ASHOK KUMAR.K	CONTRACT LECTURER	GOVT.DEGREE COLLAGE,KALWAKURTHY	ashokkumar2028@gmail.com	9849991676
11	MS.BAVANA P	ASSISTANT PROFESSOR	IMMACULATE COLLEGE FOR WOMEN	bavapatrik@gmail.com	9092808629
12	MR.BIMAN ROY	ASSISTANT PROFESSOR	ABHAYAPURI COLLEGE	bimanroymtb@gmail.com	8723094406
13	DR.B S SATHISHKUMAR	ASSOCIATE PROFESSOR	AVC COLLEGE OF ENGINEERING	bssathishavc@gmail.com	8754361988
14	DR.SENTHIL KUMAR B V	ASSOCIATE PROFESSOR	NIZWA COLLEGE OF TECHNOLOGY, NIZWA, OMAN	bvskumarmaths@gmail.com	9566927114
15	MR.MANOHARAN A	ASSISTANT PROFESSOR	GANADIPATHY TULSI'S JAIN ENGINEERING COLLEGE	mano.vallalar@gmail.com	9952450941
16	MRS.CHRISTY ANITHA C	ASSISTANT PROFESSOR	KAMBAN COLLEGE OF ARTS AND SCIENCE FOR WOMEN	cchristyanitha@gmail.com	9962699740

17	MRS.CHANDRAKALA P	ASSISTANT PROFESSOR	SRI VASAVI COLLEGE	chandrakumarpc@gmail.com	9940912165
18	MR.CHANDRA PRAKASH YADAV	RESEARCH SCHOLAR	DEPARTMENT OF STATISTICS, BANARAS HINDU UNIVERSITY	chandrap.yadav4@bhu.ac.in	7376160897
19	MS.ABIRAMASUNDARI C	ASSISTANT PROFESSOR	AVS ENGINEERING COLLEGE	chdaabi18@gmail.com	8778044981
20	DR.SIVAGNANAM C	ASSISTANT PROFESSOR	SUR COLLEGE OF APPLIED SCIENCES	choshi71@gmail.com	96-894065379
21	DR.D. CHRISTIA JEBAKUMARI	ASSISTANT PROFESSOR	POPE'S COLLEGE, SAWYERPURAM-628 251	christiajeba@gmail.com	9487669424
22	MR.C RAVIKUMAR	ASSISTANT PROFESSOR	SRI VENKATESWARA DEGREE AND PG COLLEGE,	crkumar.maths@gmail.com	9492155687
23	MR.DANIEL SANTHOSH J	LECTURER	SESHASAYEE INSTITUTE OF TECHNOLOGY	danielsanthosh88@gmail.com	8610195669
24	MRS.DORATHY PREMA KAVITHA .D	ASSISTANT PROFESSOR	VOORHEES COLLEGE	darathypremakavitha@gmail.com	7904769967
25	MRS.MARYDAYANA A	ASSISTANT PROFESSOR	VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES	dayanalilly@gmail.com	9715964321
26	MS.DEEBAMONICA.A	ASSISTANT PROFESSOR	BHARATHIDASAN COLLEGE OF ARTS AND SCIENCE	deebulilly@gmail.com	9488021295
27	MRS.SREE DEVI P	ASSISTANT PROFESSOR	ASSISTANT PROFESSOR	devisujin16@gmail.com	9488409074
28	DR.S. RADHAKRISHNAN	ASSISTANT PROFESSOR	D. G. VAISHNAV COLLEGE	dgvcradhakrishnan@gmail.com	9841498616
29	DR.DR.S.DHANALAKSHMI	ASSISTANT PROFESSOR	SRMIST RPM CHENNAI	dhanalas1@srmist.edu.in	8778799519
30	DR.SUBHA V S	ASSISTANT PROFESSOR	DHARMAPURAM GNANAMBIGAI GOVERNMENT ARTS COLLEGE (W)	dharshinisuresh2002@gmail.com	9600882112
31	DR.DHANANJAYA REDDY	ASSISTANT PROFESSOR	GOVERNMENT DEGREE COLLEGE	djreddy65@gmail.com	9440494625
32	DR.GOKULAKRISHNAN S	ASSOCIATE PROFESSOR	SKP ENGINEERING COLLEGE	doctorgokulmaths@gmail.com	9894304247
33	DR.ARUNKUMAR M	ASSISTANT PROFESSOR	GOVERNMENT ARTS COLLEGE	drarun4maths@gmail.com	9994743209
34	DR.DR EKTA SHARMA	PROFESSOR	DELHI PUBLIC SCHOOL	drektadpsm@gmail.com	8369549416
35	DR.ANNADURAI K	ASSISTANT PROFESSOR	M.V.MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN,	drkannadurai@gmail.com	9894331693

36	DR.DR.LIJO JACOB VARGHESE	PROFESSOR	CHRISTIAN COLLEGE OF ENGINEERING AND TECHNOLOGY	drlijojacobvarghese@gmail.com	9842254402
37	MR.SUBRAMANIAN P	ASSISTANT PROFESSOR	MANONMANIAM SUNDARANAR UNIVERSITY COLLEGE,	drpsmani1729@gmail.com	7708477366
38	MR.RAVINDRA RAJU KARKERA	ASSISTANT TEACHER	ST. JOSEPH'S HIGH SCHOOL	ravikarkera1@rediffmail.com	9820253544
39	DR.ELAKKIYA M	ASSISTANT PROFESSOR	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY	elayasubu.999@gmail.com	9940844913
40	DR.POONGOTHAI. E	ASSISTANT PROFESSOR	SHANMUGA INDUSTRIES ARTS AND SCIENCE COLLEGE,	epoongothai5@gmail.com	9003840684
41	MR.K.M.VENKATA RAMANA	ASSOCIATE PROFESSOR	CHRISTU JYOTHI INSTITUTE OF TECHNOLOGY AND SCIENCE	findpanduhere@gmail.com	9848225593
42	MS.GEETA KUMARI	RESEARCH SCHOLAR	RESEARCH SCHOLAR	geetakumari785@gmail.com	7979811290
43	MRS.GEETHALAKSHMI G	ASSISTANT PROFESSOR	A.V.C.COLLEGE OF ENGINEERING	geethavish294@gmail.com	9443920753
44	DR.P.GOMATHISUNDARI	ASSISTANT PROFESSOR	RAJAH SERFOJI GOVERNMENT COLLEGE	gomathi.rsg@gmail.com	9942248473
45	MR.G.PURUSHOTHAM	ASSOCIATE PROFESSOR	SRNK GOVERNMENT DEGREE COLLEGE	gurudupurushtham@gmail.com	9603716699
46	MRS.GAYATHRI V	ASSISTANT PROFESSOR	ST.JOSEPH COLLEGE OF ENGINEERING	vggayathri9@gmail.com	9080349655
47	DR.DR. H. D. ARORA	PROFESSOR	AMITY UNIVERSITY	hdarora@amity.edu	9891375211
48	MRS.HEMALATHA T	ASSISTANT PROFESSOR	ERODE ARTS AND SCIENCE COLLEGE	hemalathahari2014@gmail.com	8973406600
49	DR.SHAKEELA SATHISH	PROFESSOR	SRMIST RAMAPURAM	hod.maths.rmp@srmist.edu.in	9444404970
50	MR.MANIKANDAN.T	ASSISTANT PROFESSOR	MOHAMED SATHAK ENGINEERING COLLEGE, KILAKARAI	apkmanii@gmail.com	9092553851
51	DR.PAULRAJ JAYASIMMAN I	ASSOCIATE PROFESSOR	AMET DEEMED TO BE UNIVERSITY	ipjayasimman@gmail.com	8678949152
52	MR.JAYASEELAN G	ASSISTANT PROFESSOR	VSB ENGINEERING COLLEGE KARUR	jacobgayaseelan@gmail.com	9597265540
53	MS.JADHAV NEHA	ASSISTANT PROFESSOR	SANJAY GHODAWAT UNIVERSITY KOLHAPUR	jadhavneha062@gmail.com	9130512986
54	MR.JAGAN MOHAN B	LECTURER	MALD GDC GADWAL	jagancharith@gmail.com	9440911707

55	DR.JAYAPRAKASH M C	LECTURER	AL MUSANNA COLLEGE OF TECHNOLOGY	jayaprakashmc@gmail.com	+96892564360
56	DR.JITENDRA KUMAR	ASSISTANT PROFESSOR	SWAMI VIVEKANAND SUBHARTI UNIVERSITY,	jitte.dm@gmail.com	8410340202
57	MR.JOSHI PASHUPATHI SHARMA	LECTURER	GOVERNMENT DEGREE COLLEGE, MEDAK	joshipashupathi@gmail.com	8500526923
58	MRS.KAVITHA. J	ASSISTANT PROFESSOR	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY,	kavithaj1@srmist.edu.in	9176075774
59	MRS.KAVITHA R	ASSISTANT PROFESSOR	AMC ENGINEERING COLLEGE	kavithamaths20@gmail.com	7019540020
60	DR.KAYALVIZHI C	ASSISTANT PROFESSOR	IDHAYA COLLEGE FOR WOMEN, KUMBAKONAM.	kayalteja@gmail.com	9600244424
61	MR.CHANDRASEKRAN K	ASSISTANT PROFESSOR	JEPPIAAR SRR ENGINEERING COLLEGE	kchandru1978@gmail.com	9444296821
62	DR.CHANDRASEKARAN V M	PROFESSOR	VELLORE INSTITUTE OF TECHNOLOGY VELLORE	kmsanthi@gmail.com	9442203481
63	MS.MS. K. PARIMALADEVI	ASSISTANT PROFESSOR	BHARATHIDASAN COLLEGE OF ARTS AND SCIENCE,	kpmdevi22@gmail.com	9942855142
64	DR.KULVEER SINGH RANA	ASSISTANT PROFESSOR	BFIT DEHRADUN, HN BG CENTRAL UNIVERSITY,	kukki652@gmail.com	9410551652
65	MRS.LEONI SHARMILA S	ASSISTANT PROFESSOR	SRM IST, RAMAPURAM	leonishs@srmist.edu.in	9841258942
66	DR.N. SENTHIL VELMURUGAN	ASSOCIATE PROFESSOR	ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY	lonyka2014@gmail.com	9444544739
67	DR.PANDISELVI L	ASSISTANT PROFESSOR	V.O.CHIDAMBARAM COLLEGE	lpandiselvibala@gmail.com	8778401065
68	MR.MADHUKAR DWEPA	ASSISTANT PROFESSOR	NAGARJUNA GOVERNMENT DEGREE COLLEGE (A),	madhudwepa@gmail.com	8978664387
69	MS.MANJU MUKUNDAN	ASSOCIATE PROFESSOR	ETTUMANOORAPPAN COLLEGE, ETTUMANOOR	manjuyajakumartk@gmail.com	9497323994
70	MR.MANOCHARAN A	ASSISTANT PROFESSOR	GANADIPATHY TULSI'S JAIN ENGINEERING COLLEGE	mano.vallalar@gmail.com	9952450941
71	MR.MENDE ANJIAH	ASSISTANT PROFESSOR	GOVERNMENT DEGREE COLLEGE (SCIENCE)	may661986@gmail.com	9491877502
72	MS.MS. MEKALA DEVI A	ASSISTANT PROFESSOR	DHANALAKSHMI SRINIVASAN COLLEGE OF ENGINEERING	mekalai4@gmail.com	9976941977
73	DR.KULANDAIVEL M P	PROFESSOR	AL MUSANNA COLLEGE OF TECHNOLOGY	mpkoman@gmail.com	96-898858678

74	DR.SARAVANAN M	ASSISTANT PROFESSOR	MANNAR THIRUMALAI NAICKER COLLEGE	msaran81@gmail.com	9952836875
75	MR.GANAPATHY. P	ASSISTANT PROFESSOR	ARULMIGU KALASALINGAM COLLEGE OF ARTS AND SCIENCE,	mscmphil1985@gmail.com	9944123648
76	MR.G.J.MURALI KANTH	CONTRACT LECTURER	NTR GDC MAHABUBNAGAR	muralikanthchicha@gmail.com	9989604455
77	MR.MURUGAN J	ASSISTANT PROFESSOR	GOBI ARTS & SCIENCE COLLEGE,	muruganj23@gmail.com	9884303326
78	MR.NALLAIAN I	ASSISTANT PROFESSOR	SRINIVASAN COLLEGE OF ARTS AND SCIENCE	nallaian123@gmail.com	9500744799
79	MRS.M. MUTHU RAMYA	ASSISTANT PROFESSOR	ST. PETRES INSTITUTE OF HIGHER EDUCATION AND RESEARCH	narayanan.ramya28@gmail.com	9600144828
80	MS.NIVEDHA P	ASSISTANT PROFESSOR	AGNI COLLEGE OF TECHNOLOGY	nivedhaammu@gmail.com	9715666404
81	MR.PARAG D. AJANI	ASSISTANT PROFESSOR	ATMIYA UNIVERSITY, RAJKOT	paragajani@gmail.com	9909986867
82	MS.ANGALA PARAMESWARI D	ASSISTANT PROFESSOR	SRI SARADA MAHAVIDYALAYAM ARTS AND SCIENCE COLLEGE	parameshdhandapani193@gmail.com	8973413361
83	MRS.PAVAN KUMARI VULICHI	ASSOCIATE PROFESSOR	MALLA REDDY ENGINEERING COLLEGE	Pavani.stat@gmail.com	9553266648
84	DR.GNANACHANDRA P	ASSISTANT PROFESSOR	AYYA NADAR JANAKI AMMAL COLLEGE	pgchandra07@gmail.com	9524241891
85	MRS.POONGOTHAI S	ASSISTANT PROFESSOR	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY	poongots@srmist.edu.in	9080360835
86	MR.PRABAKARAN P	ASSISTANT PROFESSOR	ERODE ARTS AND SCIENCE COLLEGE(AUTONOMOUS)	pprabakaran57@gmail.com	8870266548
87	MR.PRABAHARAN N	ASSOCIATE PROFESSOR	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY	prabaharan.n83@gmail.com	9952154790
88	DR.NAGARAJAN S	ASSOCIATE PROFESSOR	KONGU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)	profnagarajan.s@gmail.com	9842837128
89	MR.RAMANATHAN R	ASSISTANT PROFESSOR	A.M.JAIN COLLEGE	proframr@gmail.com	9840418089
90	DR.KUMARI LATHA.T	ASSOCIATE PROFESSOR	SRI KUMARA GURUPARA ARTS COLLEGE	rajapaul1962@gmail.com	9976527200
91	DR.RAJESHWARI S	ASSISTANT PROFESSOR	PRESIDENCY UNIVERSITY	rajeshwari.s@presidencyuniversity.in	9481479042

92	DR.RAJESWARI T	ASSISTANT PROFESSOR	IDHAYA COLLEGE FOR WOMEN	rajeswari.mrt24@gmail.com	9003852388
93	MR.RAMESH R	ASSISTANT PROFESSOR	SRMIST RAMAPURAM	rameshr1@srmist.edu.in	9551029804
94	DR.RAM KRISHAN	LECTURER	GOVT. DEGREE COLLEGE KATHUA	ramk123.verma@gmail.com	9797631994
95	MRS.RANA TARANNUM	LECTURER	AL MUSANNAH COLLEGE OF TECHNOLOGY OMAN	rana@act.edu.om	9973048200
96	MR.RAVINDRA RAJU KARKERA	ASSISTANT TEACHER	ST. JOSEPH'S HIGH SCHOOL	ravikarkera1@rediffmail.com	9820253544
97	MRS.DEVI R	ASSISTANT PROFESSOR	IMMACULATE COLLEGE FOR WOMEN	rdeviramyadon@gmail.com	8220324938
98	DR.EZHILARASI R	ASSISTANT PROFESSOR	ARIGNAR ANNA GOVERNMENT ARTS COLLEGE	rearasi@gmail.com	9994684667
99	DR.DR. D. REDDY BABU	PROFESSOR	TIRUMALA ENGINEERING COLLEGE	reddybabu17@gmail.com	9441752543
100	MS.RESHMA SUDARSHAN BINGI	LECTURER	BRAHMDEV DADA MANE POLYTECHNIC,BELATI,SOLAPUR.	reshmabingi123@gmail.com	9503055988
101	MS.REEBA JOY S	ASSISTANT PROFESSOR	IMMACULATE COLLEGE FOR WOMEN	rjoys@rocketmail.com	9597004622
102	DR.VARADHARAJAN.R	ASSISTANT PROFESSOR	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY	rjvrajan@gmail.com	9047456548
103	MRS.LAWANYA.T	ASSISTANT PROFESSOR	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY,RAMAPURAM	sandeepreehan2014@gmail.com	9150933120
104	MRS.MOHANAPRIYA G	ASSISTANT PROFESSOR	KGISL INSTITUTE OF TECHNOLOGY	sanjuhempriya@gmail.com	9865351234
105	MRS.SANTHI P K	ASSISTANT PROFESSOR	JAYARAJ ANNAPACKIAM COLLEGE FOR WOMEN	santhipavi05052009@gmail.com	8870069257
106	DR.S PARTHASARATHY	ASSISTANT PROFESSOR	SRM IST RAMAPURAM	sarathyphd@gmail.com	9840627606
107	DR. SATHYA E	ASSISTANT PROFESSOR	SHANMUGA INDUSTRIES ARTS &SCIENCE COLLEGE	sathya24mathematics@gmail.com	7904543950
108	DR.SATHYA S	ASSISTANT PROFESSOR	A.V.C.COLLEGE OF ENGINEERING	sathyapre@gmail.com	9488003896
109	MRS.DEEPAS	ASSISTANT PROFESSOR	BHARATHIDASAN COLLEGE OF ARTS AND SCIENCE	sdeepamath@gmail.com	9659777668
110	MR.GOSALA SEKHAR BABU	ASSISTANT PROFESSOR	GOVT.COLLEGE(AUTONOMOUS) RAJAHMUNDRY	sekhar1983@gcrjy.ac.in	8639720690

111	MR.M.SEKHAR	ASSISTANT PROFESSOR	ERODE ARTS AND SCIENCE COLLEGE	sekjoo143@gmail.com	8825671793
112	DR.SURBHI GUPTA	ASSISTANT PROFESSOR	AMITY UNIVERSITY	sgupta11@amity.edu	7835941930
113	DR.SHAJITHA BEGUM S	ASSOCIATE PROFESSOR	JAMAL MOHAMED COLLEGE	shajithasn@rediffmail.com	9894989437
114	MR.SHIVAM PRATAP SINGH	ASSISTANT PROFESSOR	N.A.K.P.DEGREE COLLAGE	shivamsingh70441@gmail.com	8318448249
115	MRS.SHOBANA.A	ASSISTANT PROFESSOR	ERODE ARTS AND SCIENCE COLLEGE	shobimathgold@gmail.com	9976695576
116	DR.DEVI SHYAMALA MARY C	ASSISTANT PROFESSOR	ST.JOSEPH'S COLLEGE OF ARTS AND SCIENCE	shyam.mary@gmail.com	9578092309
117	MR.MANTHA SRIKANTH	ASSISTANT PROFESSOR	MALLA REDDY ENGINEERING COLLEGE	srikanth.2027@gmail.com	9492966642
118	MRS.CHELLAPRIYA K	ASSISTANT PROFESSOR	KGISL INSTITUTE OF TECHNOLOGY	srinidhiharini@gmail.com	9791645580
119	DR.SUGUNA DEVI. K	ASSISTANT PROFESSOR	SRI PARASAKTHI COLLEGE FOR WOMEN, COURTALLAM	sugunadevi06@gmail.com	9790597294
120	MRS.SULOCHANA K	ASSISTANT PROFESSOR	BHARATHIAR UNIVERSITY ARTS AND SCIENCE COLLEGE,	sulochana774@gmail.com	9943799366
121	MRS.SUMATHI P	ASSISTANT PROFESSOR	SRM IST	sumathiprem.in@gmail.com	9944379523
122	MRS.SUMATHI R	ASSISTANT PROFESSOR	MANNAR THIRUMALAI NAICKER COLLEGE	sumathiragunat@gmail.com	9941562915
123	MS.SUNITHA P	ASSISTANT PROFESSOR	SRM IST, RAMAPURAM	sunithapurush@gmail.com	9790713527
124	MR.VENKATESAN A	ASSISTANT PROFESSOR	STJOSEPH'S COLLEGE OF ARTS AND SCIENCE AUTONOMOUS	suresh11venkat@gmail.com	9566780411
125	MRS.VIDHYA S R	ASSISTANT PROFESSOR	BON SECOURS COLLEGE FOR WOMEN	svidhya087@gmail.com	9944208587
126	MS.BHADGALE SWATI	ASSISTANT PROFESSOR	SAMARTH COLLEGE OF COMPUTER SCIENCE BELHE	swatijbhadgale@gmail.com	9970637126
127	MR.SYED MUHAMMED	ASSOCIATE PROFESSOR	AL MUSANNA COLLEGE OF TECHNOLOGY - OMAN	syedmdshaval@gmail.com	96-895762301
128	DR.SUDHA T G	ASSISTANT PROFESSOR	GOVERNMENT SCIENCE COLLEGE (AUTONOMOUS),	tgsudha65@gmail.com	9535056766
129	MS.PROF. S.THATCHAYANI	ASSISTANT PROFESSOR	ANNAI VAILANKANNI ARTS AND SCIENCE COLLEGE,	thatchu170@gmail.com	8754191600

130	MS.POURNIMA SUNIL THORAT	ASSISTANT PROFESSOR	DANGE COLLEGE OF ENGINEERING AND TECHNOLOGY	thoratpournima225@gmail.com	8329669716
131	MRS.JAYALAKSHMI N	ASSISTANT PROFESSOR	JCT COLLEGE OF OF ENGINEERING AND TECHNOLOGY	thrivarnesh@gmail.com	8940111227
132	MRS.P. UMA MAHESWARI	ASSISTANT PROFESSOR	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY	umamahep@srmist.edu.in	7299914748
133	DR.UMA S	ASSISTANT PROFESSOR	A.V.C COLLEGE OF ENGINEERING	umamurali100@gmail.com	9487237105
134	DR.UMAMAHESWARIMATHS M	ASSISTANT PROFESSOR	A.V.C COLLEGE OF ENGINEERING	umasanamma@gmail.com	7010507722
135	MRS.USHA CALISTA .G	ASSISTANT PROFESSOR	ST.JOSEPH'S COLLEGE, TRICHY1	usharichlynn@gmail.com	8610599784
136	MR.RANJEETKUMAR A VARMA	ASSISTANT PROFESSOR	VPM'S JOSHI-BEDEKAR COLLEGE	v11.ranjeet@gmail.com	9930291011
137	MRS.JAYAPRIYA V	ASSISTANT PROFESSOR	IDHAYA COLLEGE FOR WOMEN	vaishnamurugan@gmail.com	9944885815
138	DR.VANDANA	ASSISTANT PROFESSOR	K.L MEHTA DAYANAND COLLEGE FARIDABAD	vandna.acme@gmail.com	9813549007
139	DR.DR.G.SUDHA	ASSISTANT PROFESSOR	A.D.M.COLLEGE FOR WOMEN AUTONOMOUS	venkat_sudha@yahoo.in	8883176263
140	MR.VIJAY DAULATRAO GAJBHE	LECTURER	GOVERNMENT POLYTECHNIC,GADCHIROLI	vijay.gajbhe786@gmail.com	9545652326
141	DR.VIJAYACHITRA S	ASSISTANT PROFESSOR	SCP JAIN COLLEGE	vijayachitra@live.com	8939999579
142	MRS.VIJAYALAKSHMI R	ASSISTANT PROFESSOR	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, RAMAPURAM	vijayalakshmisvks.math@gmail.com	8300121363
143	MRS.VISHNU	ASSISTANT PROFESSOR	ARULMIGU KALASALINGAM COLLEGE OF ARTS AND SCIENCE	vishnupriya15oct@gmail.com	7598636586
144	SANJAI P	ASSISTANT PROFESSOR	MVM POLACHERI	pandianapr5@gmail.com	8778406773
145	INIAVAN S	ASSISTANT PROFESSOR	ST.JOSEPHS COLLEGE OF ENGINEERING	iniavan3481013@gmail.com	9600360769
146	GOUTHAMEN S	ASSISTANT PROFESSOR	ST. JOSEPH'S COLLEGE OF ENGINEERING	gowthamen32@gmail.com	9445123356
147	BHARATH KUMAR T	ASSISTANT PROFESSOR	COLLEGE	tbharathkumar0146@gmail.com	7358616908

148	V.VAISHNAVI	ASSISTANT PROFESSOR	THIRUMUGAN ARTS AND SCIENCE COLLEGE FOR WOMEN	vaishnavisankar17@gmail.com	9962768535
149	SNEHA M	ASSISTANT PROFESSOR	PSGR KRISHNAMMAL COLLEGE	snehasri10557@gmail.com	6383279114
150	AJAY KANNAN S	ASSISTANT PROFESSOR	ST.JOSEPH'S COLLEGE OF ENGINEERING	ajaykannanajay@gmail.com	9551495592
151	KALA P	ASSISTANT PROFESSOR	LADY WILLINGDON INSTITUTE OF EDUCATION	dollyrangan@gmail.com	7010871230
152	RAMPURE GANESH PRATAP	ASSISTANT PROFESSOR	C. P. COLLEGE JALNA	ganeshrampure004@gmail.com	9766983944
153	MS. POURNIMA SUNIL THORAT	ASSISTANT PROFESSOR	ANNASAHEB DANGE COLLEGE OF ENGINEERING	thoratpournima225@gmail.com	8329669716
154	SHUBHAM GANESH BHANUSHALI	ASSISTANT PROFESSOR	K.M.AGRAWAL COLLEGE	shubhambhanushali777@gmail.com	7700015677
155	LINCY E	ASSISTANT PROFESSOR	A. P. C. MAHALAXMI COLLEGE FOR WOMEN	jebarajmary05@gmail.com	9442218967
156	MRS.M. MUTHU RAMYA	ASSISTANT PROFESSOR	ST. PETRES INSTITUTE OF HIGHER EDUCATION AND RESEARCH	narayanan.ramya28@gmail.com	9600144828
157	NAVNATH SUDHAKAR	ASSISTANT PROFESSOR	RAJARSHRI SHAHU MAHAVIDHYALAYA (AUTONOMOUS) LATUR	navnathsuryawanshi999@gmail.com	9545563705
158	GAYATHRI B	ASSISTANT PROFESSOR	WOMEN'S CHRISTIAN COLLEGE	gayathrimalar37@gmail.com	6374249337
159	JANANIE.T	ASSISTANT PROFESSOR	ST JOSEPH'S COLLEGE OF ENGINEERING	jananie2401@gmail.com	8610643242
160	ALEX ALBERT I	ASSISTANT PROFESSOR	ST.JOSEPH'S COLLEGE OF ENGINEERING	alexalbert2001@gmail.com	9952164760
161	MARY MAGDALENE M	ASSISTANT PROFESSOR	WOMEN'S CHRISTIAN COLLEGE	magdalene.3019@gmail.com	7418031402
162	DIVYA. S	ASSISTANT PROFESSOR	WOMEN'S CHRISTIAN COLLEGE	divyalincys@gmail.com	9940651470
163	JISNA BABY	ASSISTANT PROFESSOR	BCM COLLEGE	jisnapallipurath@gmail.com	8547125818
164	CHAMUNDESWARI	ASSISTANT PROFESSOR	ST.JOSEPH'S COLLEGE OF ENGINEERING	chamundeshwari.17@gmail.com	9042616480

Course Assessment Progress and Certification for the Online FDP

Summary of the Participants	No of Confirmed Participation	164
	Certified Participants	152

In total, **92%** of participants successfully completed the online FDP on Fuzzy Mathematical Modelling.

The sample certificate issued to the participants after the successful completion of online course is given below.



Analysis of Feedback from the Participants

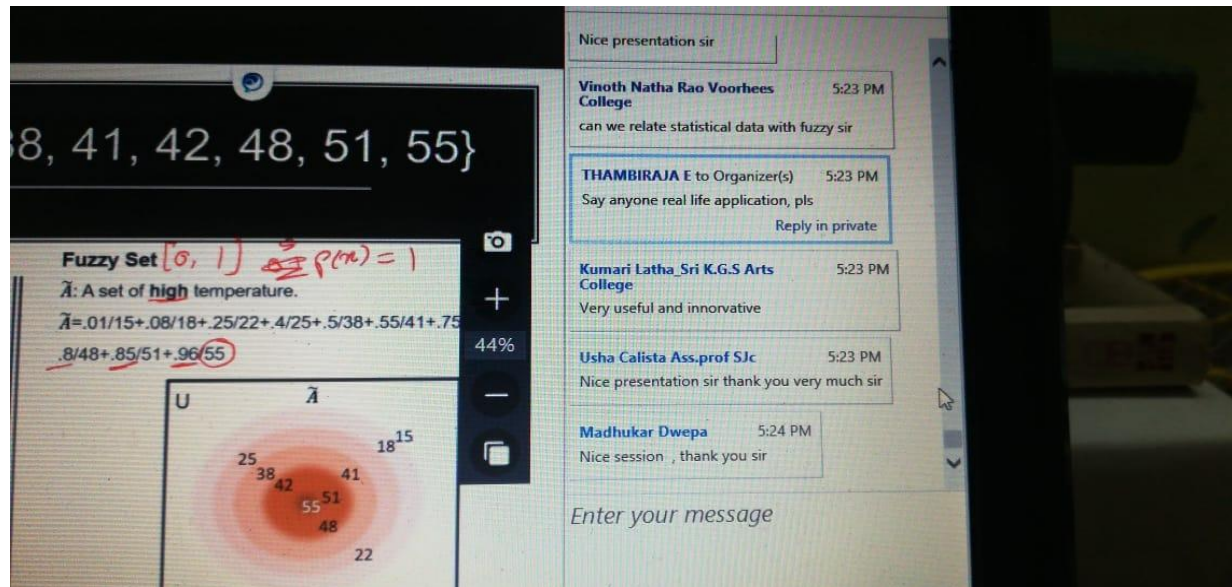
The feedback about the FDP was collected from the participants in order to improve the further conduct of these types of events.

Feedback Points	Analysis	Inference
The title of the session conveyed its content	<p>The title of the session conveyed its content 154 responses</p> <p> ● Excellent ● Very Good ● Good ● Fair </p>	<p>71.4% of the participants gave excellent 26.4% gave very good. Remaining gave good and fair</p>
Content of the session was more informative	<p>Content of the session was more informative 154 responses</p> <p> ● Strongly agree ● Agree ● Neutral </p>	<p>77.3 % of the participants were strongly agree. 22.1 % of the participants were agree. Remaining gave neutral.</p>
Session will help to improve research methods	<p>Session will help to improve research methods 154 responses</p> <p> ● Strongly agree ● Agree ● Neutral </p>	<p>76.0 % of the participants were strongly agree, 22.7 % of the participants were agree. Remaining gave neutral.</p>
What is your overall rating of the session?	<p>What is your overall rating of the session? 154 responses</p> <p> ● Excellent ● Very Good ● Good ● Fair </p>	<p>74.0% of the participants gave excellent. 22.7% gave very good. Remaining gave good and fair.</p>

Day 1 Screen Shots:

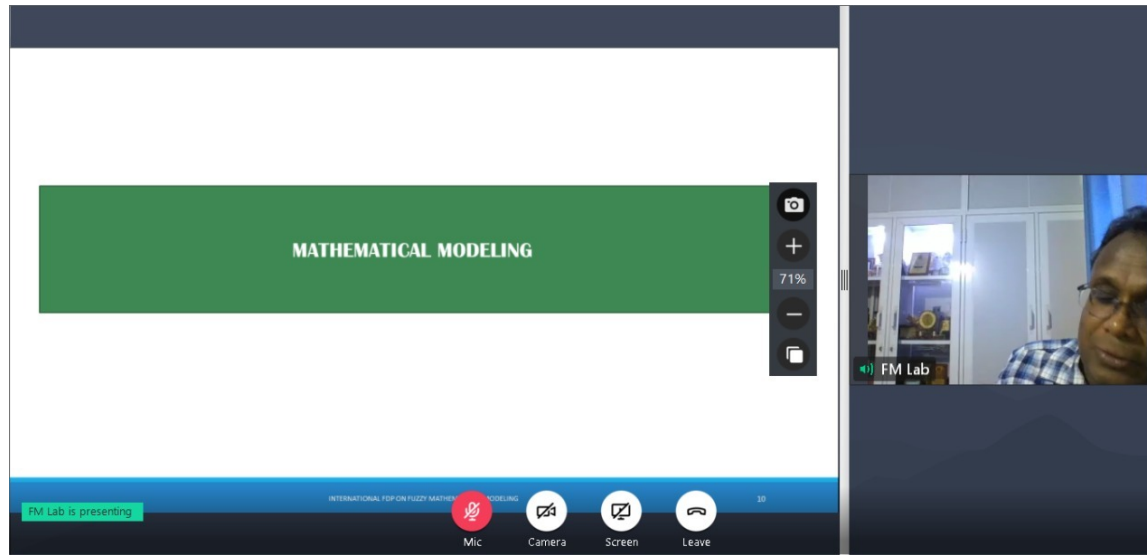


Presentation by Dr. Sanjay Kumar Tyagi



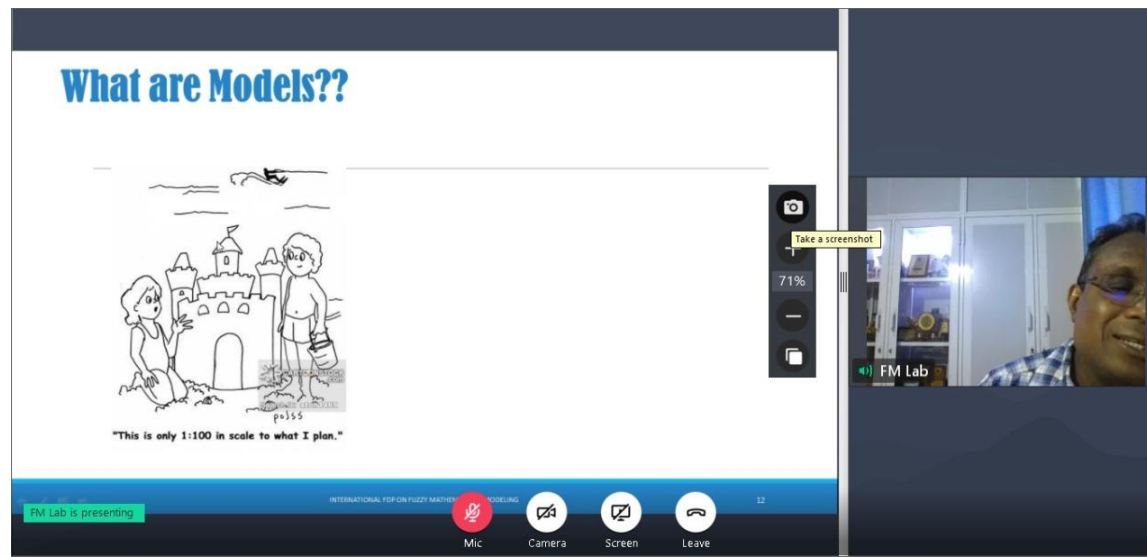
Question and Answer session

Day 2 Screen Shots:



A screenshot of a Zoom meeting. The main window displays a presentation slide with a green header that reads "MATHEMATICAL MODELING". To the right of the slide is a vertical toolbar with icons for camera, zoom (+), zoom (-), and a document icon. The zoom level is indicated as 71%. Below the slide is a blue Zoom control bar with icons for Mic, Camera, Screen, and Leave. A small green notification bar at the bottom left of the slide area says "FM Lab is presenting". On the right side of the screen, a video thumbnail shows a man with glasses and a plaid shirt, identified as "FM Lab".

Presentation by Dr. Sanjeewa Perera



A screenshot of a Zoom meeting. The main window displays a presentation slide titled "What are Models??" in blue text. Below the title is a cartoon illustration of a boy and a girl building a sandcastle. The boy is holding a bucket and the girl is pointing at the sandcastle. Below the illustration, the text reads: "This is only 1:100 in scale to what I plan." At the bottom of the slide, there is a small signature "p.155". To the right of the slide is a vertical toolbar with icons for camera, zoom (+), zoom (-), and a document icon. The zoom level is indicated as 71%. Below the slide is a blue Zoom control bar with icons for Mic, Camera, Screen, and Leave. A small green notification bar at the bottom left of the slide area says "FM Lab is presenting". On the right side of the screen, a video thumbnail shows the same man with glasses and a plaid shirt, identified as "FM Lab". A yellow tooltip with the text "Take a screenshot" is visible over the zoom controls.

Dr. Sanjeewa Perera explains about What are Models?