

Department of Mathematics, Dr. Ambedkar Institute of Technology								
	Expert_ID	Experience_ID	Qualification_ID	Title	First_Name	Last_Name	Date_of_Birth	Gender
Format				Title of the staff.	First name of the faculty	Last name of the faculty. Initials to	Date of birth of the faculty in	Male/Female
	Expert_ID	Experience_ID	Qualification_ID	Title	First_Name	Last_Name	Date_of_Birth	Gender
Existing faculty as downloaded from Vidwan portal	156287			Dr	Nanjundappa	C E	07-29-1963	Male
Existing faculty as downloaded from Vidwan portal	225588			Dr	Murali	R	02-09-1968	Male
Existing faculty as downloaded from Vidwan portal	153871			Dr	Badekara	Sooryanarayana	05-13-1965	Male
Existing faculty as downloaded from Vidwan portal	154086			Dr.	Jayalakshmi	M	04-27-1973	Female
Existing faculty as downloaded from Vidwan portal	153912			Dr	Nagarathnamma	H	10-07-1985	Female
Existing faculty as downloaded from Vidwan portal	156540			Dr	Prabhavati	Angadi	03-21-1983	Female
Existing faculty as downloaded from Vidwan portal	156477			Dr	Pavithra	A	06-01-1990	Female
Existing faculty as downloaded from Vidwan portal	153909			Dr	Shivaprasanna	G S	1982-09-12	Male
Existing faculty as downloaded from Vidwan portal	153908			Dr	Sunitha	Kulkarni	11-25-1973	Female
Existing faculty as downloaded from Vidwan portal	156481			Dr	Savitha	Y L	06-29-1986	Female
Existing faculty as downloaded from Vidwan portal	156464			Dr	Bhavya	S	06-01-1989	Female
Existing faculty as downloaded from Vidwan portal	147593			Dr	Sowbhagya	NA	08-31-1986	Female
New faculty				Dr	Divya	Darshini S	03-28-1987	Female

*Jayas*

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Bangalore-560056.

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*[Signature]*  
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Bangaluru-560 056

Mobile Number	Email	Address	District
(10 digit mobile number)	Email id of faculty. Personal email id is preferred.	Institution address as on the institution website	District where
Mobile Number	Email	Address	District
8762600979	<a href="mailto:nanjundappace@gmail.com">nanjundappace@gmail.com</a>	Dr. Ambedkar Institute of Technology, Outer ring road, Mallathahalli, Bengaluru	Bengaluru
9844259313	<a href="mailto:muralir2968@gmail.com">muralir2968@gmail.com</a>	Dr. Ambedkar Institute of Technology, Outer ring road, Mallathahalli, Bengaluru	Bengaluru
9844236450	<a href="mailto:dr_bsnrao.mat@drait.edu.in">dr_bsnrao.mat@drait.edu.in</a>	Dr. Ambedkar Institute of Technology, Outer ring road, Mallathahalli, Bengaluru	Bangalore
9448843444	<a href="mailto:jayachatra@yahoo.co.in">jayachatra@yahoo.co.in</a>	Dr. Ambedkar Institute of Technology, Outer ring road, Mallathahalli, Bengaluru	Bengaluru
9481781018	<a href="mailto:chenduhn2010@gmail.com">chenduhn2010@gmail.com</a>	Dr. Ambedkar Institute of Technology, Outer ring road, Mallathahalli, Bengaluru	Bengaluru
8147412216	<a href="mailto:prabhavatiangadi71@gmail.com">prabhavatiangadi71@gmail.com</a>	Dr. Ambedkar Institute of Technology, Outer ring road, Mallathahalli, Bengaluru	Bengaluru
8494969821	<a href="mailto:pavithragowda1601@gmail.com">pavithragowda1601@gmail.com</a>	Dr. Ambedkar Institute of Technology, Outer ring road, Mallathahalli, Bengaluru	Bengaluru
9964622475	<a href="mailto:shivaprasanna28@gmail.com">shivaprasanna28@gmail.com</a>	Dr. Ambedkar Institute of Technology, Outer ring road, Mallathahalli, Bengaluru	Bengaluru
9481017400	<a href="mailto:sunitambb73@gmail.com">sunitambb73@gmail.com</a>	Dr. Ambedkar Institute of Technology, Outer ring road, Mallathahalli, Bengaluru	Bengaluru
8147541289	<a href="mailto:savithapshekar@gmail.com">savithapshekar@gmail.com</a>	Dr. Ambedkar Institute of Technology, Outer ring road, Mallathahalli, Bengaluru	Bengaluru
9632702246	<a href="mailto:s.bhavya89@gmail.com">s.bhavya89@gmail.com</a>	Dr. Ambedkar Institute of Technology, Outer ring road, Mallathahalli, Bengaluru	Bengaluru
8867758583	<a href="mailto:sowbhagyaimpana2017@gmail.com">sowbhagyaimpana2017@gmail.com</a>	Dr. Ambedkar Institute of Technology, Outer ring road, Mallathahalli, Bengaluru	Bengaluru
9916373371	<a href="mailto:raghavisima@gmail.com">raghavisima@gmail.com</a>	Dr. Ambedkar Institute of Technology, Outer ring road, Mallathahalli, Bengaluru	Bengaluru

State	Pin_No	WOS_Subject_id	WOS_Subject	Expertise_id	Expertise
State where institution is	Pincode where	Select the entire line(all 4 fields)			
State	Pin_No	WOS_Subject_id	WOS_Subject	Expertise_id	Expertise
Karnataka	560056	4	Physical Science	49, 50, 51	Fluid Mechanics
Karnataka	560056	4	Physical Science	50,51	Graph Theory
Karnataka	560056	4	Physical Science	49, 50, 51	Graph Theory
Karnataka	560056	4	Physical Science	49, 50, 51	Graph Theory
Karnataka	560056	4	Physical Science	49, 50, 51	Fluid Mechanics
Karnataka	560056	4	Physical Science	49, 50, 51	Differential
Karnataka	560056	4	Physical Science	49, 50, 51	Fluid Mechanics
Karnataka	560056	4	Physical Science	49, 50, 51	Differential
Karnataka	560056	4	Physical Science	49, 50, 51	Graph Theory
Karnataka	560056	4	Physical Science	49, 50, 51	Fluid Mechanics
Karnataka	560056	4	Physical Science	49, 50, 51	Fluid Mechanics
Karnataka	560056	4	Physical Science	49, 50, 51	Fluid Mechanics
Karnataka	560056	4	Physical Science	49, 50, 51	Fluid Mechanics

**Brief\_Expertise**

Brief career expertise of the faculty

**Brief\_Expertise**

I am currently a Professor in the Department of Mathematics, Dr. Ambedkar Insistute of Technology Bangalore. My area is Fluid Mechanics.

I am currently an Professor in the Department of Mathematics, Dr Ambedkar Institute of Technology. My areas of interest include Graph Theory, cryptography and

I am currently an Professor in the Department of Mathematics, Dr Ambedkar Institute of Technology. My areas of interest include Graph Theory and

Currently an Associate Professor in the Department of Mathematics. My research area is Graph theory and its applications.

I am currently an Assistant Professor in the Department of Mathematics, Dr. Ambedkar Insistute of Technology Bangalore. My area is Fluid Mechanics.

I am currently an Assistant Professor in the Department of Mathematics, Dr Ambedkar Institute of Technology. My areas of interest Differential Geometry.

I am currently an Assistant Professor in the Department of Mathematics, Dr. Ambedkar Insistute of Technology Bangalore. My area is Fluid Mechanics.

I am currently an Assistant Professor in the department of Mathematics,Dr.Ambedkar Institute of Technology. My area of interest Differential

I am currently an Assistant Professor in the Department of Mathematics, Dr Ambedkar Institute of Technology. My areas of interest include Graph Theory.

I am currently an Assistant Professor in the Department of Mathematics, Dr Ambedkar Institute of Technology. My areas of interest include Fluid Mechanics, Heat

I am currently working as an Assistant Professor in the Department of Mathematics, Dr Ambedkar Institute of Technology. My areas of interest are Fluid Mechanics,

I am currently an Assistant Professor in the Department of Mathematics, Dr Ambedkar Institute of Technology. My areas of interest include Fluid Mechanics, Heat

I am currently an Assistant Professor in the Department of Mathematics, Dr Ambedkar Institute of Technology. My areas of interest include Fluid Mechanics.

Qualification	Subject	Institute	Year_of_Passed_out	Designation
Highest qualification attained by the	Subject in which faculty has attained highest	Institution from which faculty has attained highest degree	Year in which faculty has	Current Designation of the faculty
Qualification	Subject	Institute	Year_of_Passed	Designation
PhD	Fluid Mechanics	Bangalore University	2002	Professor & Head
PhD	Graph Theory	Bengaluru University	1999	Professor
PhD	Graph Theory	Bengaluru University	1999	Professor
Ph.D.	Graph Theory	Dr. Ambedkar Institute of Technolgy, Bengalore	2014	Associate Professor
PhD	Fluid Mechanics	Dr. Ambedkar Institute of Technolgy, Bengalore	2019	Assistant Professor
PhD	Differential Geometry	Dr. Ambedkar Institute of Technolgy, Bengalore	2022	Assistant Professor
PhD	Fluid Mechanics	Dr. Ambedkar Institute of Technolgy, Bengalore	2022	Assistant Professor
PhD	Differential Geometry	Bangalore University	2015	Assistant Professor
PhD	Graph Theory	Dr. Ambedkar Institute of Technolgy, Bengalore	2020	Assistant Professor
PhD	Fluid Mechanics	Dr. Ambedkar Institute of Technolgy, Bengalore	2021	Assistant Professor
PhD	Fluid Mechanics	Dr. Ambedkar Institute of Technolgy, Bengalore	2022	Assistant Professor
PhD	Fluid Mechanics	Bangalore University	2019	Assistant Professor
PhD	Fluid Mechanics	Bangalore University	2021	Assistant Professor



Department	Organisation	Organisation_Type	Organisation_URL	Worknig_From_Month	Working_Fro m_Year
Department name as mentioned in the	Organisation name as mentioned in the institution website	Technical Institute/College/Univ	Organisation homepage URL	Working from month in	Working from year in YYYY
Department	Organisation	Organisation_Type	Organisation_URL	Worknig_From_Month	Working_Fro
Mathematics	Dr. Ambedkar Institute of Technology	Technical Institute	<a href="https://drait.edu.in/">https://drait.edu.in/</a>	2	1989
Mathematics	Dr Ambedkar Institute of Technology	Technical Institute	<a href="https://drait.edu.in/">https://drait.edu.in/</a>	9	1990
Mathematics	Dr Ambedkar Institute of Technology	Technical Institute	<a href="https://drait.edu.in/">https://drait.edu.in/</a>	4	1992
Mathematics	Dr. Ambedkar Institute of Technology	Technical Institute	<a href="https://drait.edu.in/">https://drait.edu.in/</a>	5	2011
Mathematics	Dr. Ambedkar Insistute of Technology	Technical Institute	<a href="https://drait.edu.in/">https://drait.edu.in/</a>	12	2011
Mathematics	Dr Ambedkar Institute of Technology	Technical Institute	<a href="https://drait.edu.in/">https://drait.edu.in/</a>	2	2011
Mathematics	Dr. Ambedkar Institute of Technology	Technical Institute	<a href="https://drait.edu.in/">https://drait.edu.in/</a>	9	2013
Mathematics	Dr.Ambedkar Institute of technology	Technical Institute	<a href="https://ww.drait.edu.in">https://ww.drait.edu.i n</a>	8	2014
Mathematics	Dr Ambedkar Institute of Technology	Technical Institute	<a href="https://drait.edu.in/">https://drait.edu.in/</a>	9	2012
Mathematics	Dr Ambedkar Institute of Technology	Technical Institute	<a href="https://drait.edu.in/">https://drait.edu.in/</a>	8	2014
Mathematics	Dr Ambedkar Institute of Technology	Technical Institute	<a href="https://drait.edu.in/">https://drait.edu.in/</a>	8	2014
Mathematics	Dr Ambedkar Institute of Technology	Technical Institute	<a href="https://drait.edu.in/">https://drait.edu.in/</a>	10	2021
Mathematics	Dr Ambedkar Institute of Technology	Technical Institute	<a href="https://drait.edu.in/">https://drait.edu.in/</a>	6	2022

ORCID_ID	Researcher_ID	Scopus_ID	Google_Scholar_ID
eg: 0000-0002-6456-6761	eg: GLQ-7256-2021	eg: 36610100000	eg: DQjfizQAAAAJ
ORCID_ID	Researcher_ID	Scopus_ID	Google_Scholar_ID
<u>0000-0002-2685-8190</u>		<u>6507167403</u>	
0000-0002-7175-2774	ABG-4514-2020	57197642425	9JEfB1I8AAAAJ&hl=en
0000-0002-2835-2855	<u>AAF-7632-2021</u>	<u>6506583501</u>	<u>B_I0t-sAAAAJ</u>
0000-0001-9247-6898	AAI-3719-2021	55618111900	W_vSRYQAAAAJ
0000-0002-8394-3973		57226765687	
0000-0003-0579-2636	--	57218919640	--
0000-0003-4219-2867		<u>57221048006</u>	
0000-0002-9962-5216	AAF-5594-2021	55873286300	RFPKi2MAAAAJ
0000-0002-7408-1080	AAF-7806-2021	57218921112	--
0000-0002-2221-2384	AAL-7277-2021	57221046747	--
0000-0002-7992-9714	--	57216503673	--
<u>0000-0003-4940-0737</u>	rid46570		<u>CUz2swcAAAAJ</u>

Dr.Ambedkar Institute of Technology, Bengaluru-56  
Department of Mathematics

Research Faculty details.

#	Name of the Research Supervisor	Designation	Specialization	M.Tech/M.Sc. Awarded University	Year of Award	PhD Awarded University	Year of Award	Year of Recognition as a guide	Is the faculty still serving in the institution/if not last year of service of the faculty in the institution
1	Dr. C.E. Nanjundappa	Professor	Fluid Mecahanics	Bangalore University	1987	Bangalore University	2002	2006	Still serving
2	Dr. R. Murali	Professor	Graph Theory	Bangalore University	1990	Bangalore University	1999	2003	Still serving
3	Dr. B. Sooryanarayana	Professor	Graph Theory	Mangalore University	1989	Bangalore University	1999	2003	Still serving
4	Dr. Jayalakshmi M	Associate Professor	Graph Theory	Mangalore University	1995	VTU	2014	2015	Still serving
5	Dr. Shivaprasanna G.S	Assistant professor	Differential Geometry	Bangalore University	2006	Bangalore University	2015	2017	Still serving
6	Dr. Nagarathnamma H	Assistant professor	Fluid Mecahanics	Bangalore University	2007	VTU	2019	2022	Still serving
7	Dr. Sunitha Kulkarni	Assistant professor	Graph Theory	Karnataka University	1997	VTU	2020	2022	Still serving

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Dr.Ambedkar Institute of Technology, Bengaluru-56  
Name of the Research Centre: Department of Mathematics

List of Ph.D. awarded

Ph.D. awarded:2019

Sl No	Name of the Student	USN	Gender	Year of Registration	Full Time-FT/Part time-PT	Title of the Thesis	Name of the Research Supervisor/Co-Supervisor	Name of the University	Date of Completion of the PhD	Link: Abstr act of the Thesi s
1	Annapoorna. M.S	1DA10PGN01	Female	2010	PT	A study of distance and laceability in Graphs	Dr. R. Murali	Visvesvaraya Technolical University	18 March 2019	
2	Vijay ChandraKumar.U	1DA13PGN02	Male	2013	PT	An Elucidative Study on Domination Theoryand its Parameters	Dr. R. Murali	Visvesvaraya Technolical University	18 March 2019	

Ph.D. awarded:2020

Sl No	Name of the Student	USN	Gender	Year of Registration	Full Time-FT/Part time-PT	Title of the Thesis	Name of the Research Supervisor/Co-Supervisor	Name of the University	Date of Completion of the PhD	Link: Abstra ct of the Thesis
1	Geetha B S	1DA15PGJ06	Female	2014	PT	Some Ferroconvection Problems in Ferromagnetic Fluids and in Micropolar Fluids	Dr. C. E. Nanjundappa	Visvesvaraya Technolical University	31 Aug 2020	
2	P.Gomathi	1DA11PGN03	Female	2012	PT	Some contributions to the theory of	Dr. R. Murali	Visvesvaraya Technolical	08 Feb	

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						Hamiltonianlaceablegraphs and applicationsto computerNetworks		University	2020	
3	R.A.Daisy Singh	1DA11PGN01	Female	2011	PT	Hamiltonicity and Hamiltonian Laceability in Graph structures	Dr. R. Murali	Visvesvaraya Technolgal University	08 Feb 2020	
4	KulkarniSun itaJagannath arao	1DA16PGJ04	Female	2015	PT	AStudyonRainbowColori nginGraphs	Dr. R. Murali	Visvesvaraya Technolgal University	08 Feb 2020	
5	Yogalakshmi S	1DA15PGJ03	Female	2015	FT	Certain Classes of Multilevel Distance Labeling	Dr. B. Sooryanarayana	Visvesvaraya Technolgal University	05 Aug 2020	
6	Ramya	1DA16PGJ06	Female	2016	FT	Radiograceful Graphs and their nice characterization	Dr. B. Sooryanarayana	Visvesvaraya Technolgal University	08 Feb20 20	
7	Padma MM	1DA15PGJ07	Female	2015	PT	Certain classes of Rational Resolving sets of a Graph and their dimension	Dr. Jayalakshmi M	Visvesvaraya Technolgal University	08 Feb 2020	

Ph.D. awarded:2021

Sl No	Name of the Student	USN	Gender	Year of Registr ation	Full Time- FT/Part time- PT	Title of the Thesis	Name of the Research Supervisor/Co-Supervisor	Name of the University	Date of Completio n of the PhD	Link: Abstra ct of the Thesis
1	Nataraj N	1DA11PGM02	Male	2011	PT	Investigation on convective instability of ferrofluid in a porous medium with	Dr. C. E. Nanjundappa	Visvesvaraya Technolgal University	03 Apr 2021	

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Dr.Ambedkar Institute of Technology, Bengaluru-56  
Name of the Research Centre: Department of Mathematics

						or without micropolar fluid				
2	Ashwini R	1DA16PGJ10	Female	2015	PT	Study on Electro thermal Convection in Dielectric Fluid Saturated Porous Medium under AC Electric Field	Dr. C. E. Nanjundappa	Visvesvaraya Technolglcal University	02 Nov 2021	
3	Savitha Y L	1DA16PGJ09	Female	2015	PT	Studies on Effects of Various types of Boundary Conditions on Thermo magnetic Convection in Ferrofluid Saturated Porous Medium	Dr. C. E. Nanjundappa	Visvesvaraya Technolglcal University	02 Nov 2021	
4	Silvia LeeraSequeira	1DA15PGJ02	Female	2015	PT	On Certain Alliances in Graphs	Dr. B. Sooryanarayan a	Visvesvaraya Technolglcal University	3 Apr 2021	
5	SunithaPriya D'Silva	1DA16PGJ08	Female	2016	PT	Difference labelling of graphs	Dr. B. Sooryanarayan a	Visvesvaraya Technolglcal University	19 Mar 2021	
6	Suma AS	1DA16PGJ07	Female	2016	PT	Neighbourhood Resolving sets and dimensions in Graphs	Dr. B. Sooryanarayan a	Visvesvaraya Technolglcal University	3 Apr 2021	
7	Divya R	1DA16PGJ03	Female	2016	PT	A study of Pseudo chromatic Polynomial associated with various types of coloring of Graphs	Dr.Jayalakshmi M	Visvesvaraya Technolglcal University	05 Aug 2021	

Ph.D. awarded:2022

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Bengaluru-560 056

Sl No	Name of the Student	USN	Gender	Year of Registration	Full Time-FT/Part time-PT	Title of the Thesis	Name of the Research Supervisor/Co-Supervisor	Name of the University	Date of Completion of the PhD	Link: Abstract of the Thesis
1	Pavithra A	1DA16PGJ11	Female	2015	PT	Linear stability analysis of Thermoconvective problems for Micropolar fluids in a porous medium with or without ferromagnetic fluids	Dr. C E Nanjundappa	Visvesvaraya Technolgal University	07 July 2022	
2	Bhavya S	1DA16PGJ02	Female	2015	PT	Investigation on Nonuniform basic temperature gradient effects on heat transfer through Magnetized Nanofluids	Dr. C E Nanjundappa	Visvesvaraya Technolgal University	01 Aug 2022	
3	R Mahesh Kumar	1DA15PGJ08	Male	2014	PT	Investigations on Penetrative Convection Via Internal Heating in Ferromagnetic Fluids	Dr. C E Nanjundappa	Visvesvaraya Technolgal University	09 Nov 2022	
4	Mitra K	IDA17PGA04	Female	2017	PT	Alliances and secure sets in graphs	Dr. B. Sooryanarayan a	Visvesvaraya Technolgal University	10 Mar 2022	
5	LalitaLamani	1DA16PGJ05	Female	2016	FT	Certain classes of neighbourhood	Dr. B. Sooryanarayan	Visvesvaraya Technolgal University	09 Mar 2022	

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Faculty of Science  
Visvesvaraya Technological University  
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Dr.Ambedkar Institute of Technology, Bengaluru-56  
Name of the Research Centre: Department of Mathematics

						locating dominating sets and their properties	a	University		
6	Prabhavati G Angadi	1DA17PGA03	Female	2017	PT	A study on contact manifolds and its submanifolds	Dr.Shivaprashanna G S	Visvesvaraya Technological University	09 Mar 2022	

SI No	No of PhD awarded(Numbers only)			
	2019	2020	2021	2022
	2	7	7	6

Total Number of PhD awarded up to 2018:24

Total Number of PhD awarded up to 2022:46

Total Number of Ph.D Awarded from 2019 to 2022:22

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Dr.Ambedkar Institute of Technology, Bengaluru-56  
Name of the Research Centre: Department of Mathematics

List of Ph.D. Pursuing

Ph.D. Pursuing:2019

Sl No	Name of the Student	USN	Gender	Year of Registration	Full Time-FT/Part time-PT	Title of the Research	Name of the Research Supervisor/Co-Supervisor	Name of the University	Link: Approved letter
1	Geetha B S	1DA15PGJ06	Female	2014	PT	Some Ferroconvection Problems in Ferromagnetic Fluids and in Micropolar Fluids	Dr. C. E. Nanjundappa	Visvesvaraya Technolical University	
2	Nataraj N	1DA11PGM02	Male	2011	PT	Investigation on convective instability of ferrofluid in a porous medium with or without micropolar fluid	Dr. C. E. Nanjundappa	Visvesvaraya Technolical University	
3	Ashwini R	1DA16PGJ10	Female	2015	PT	Study on Electro thermal Convection in Dielectric Fluid Saturated Porous Medium under AC Electric Field	Dr. C. E. Nanjundappa	Visvesvaraya Technolical University	
4	Savitha Y L	1DA16PGJ09	Female	2015	PT	Studies on Effects of Various types of Boundary Conditions on Thermo magnetic Convection in Ferrofluid Saturated Porous Medium	Dr. C. E. Nanjundappa	Visvesvaraya Technolical University	
5	Pavithra A	1DA16PGJ11	Female	2015	PT	Linear stability analysis of Thermoconvective problems for Micropolar fluids in a porous medium with or without ferromagnetic fluids	Dr. C E Nanjundappa	Visvesvaraya Technolical University	

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Dr. Ambedkar Institute of Technology  
Bengaluru-560 056



6	Bhavya S	1DA16PGJ02	Female	2015	PT	Investigation on Nonuniform basic temperature gradient effects on heat transfer through Magnetized Nanofluids	Dr. C E Nanjundappa	Visvesvaraya Technolical University	
7	R Mahesh Kumar	1DA15PGJ08	Male	2014	PT	Investigations on Penetrative Convection Via Internal Heating in Ferromagnetic Fluids	Dr. C E Nanjundappa	Visvesvaraya Technolical University	
8	P.Gomathi	1DA11PGN03	Female	2012	PT	Some contributionsto the theoryofHamiltonianlaceablegraphs andapplicationstocomputerN etworks	Dr. R. Murali	Visvesvaraya Technolical University	
9	R.A.Daisy Singh	1DA11PGN01	Female	2011	PT	HamiltonicityandHamiltonianLaceabilityinGraphstructures	Dr. R. Murali	Visvesvaraya Technolical University	
10	KulkarniSunitaJagannatharao	1DA16PGJ04	Female	2015	PT	A StudyonRainbowColoringinGraphs	Dr. R. Murali	Visvesvaraya Technolical University	
11	Seema H R	1DA17PGA02	Female	2017	PT	A Study ofCombinatorial PropertiesinGraphs	Dr. R. Murali	Visvesvaraya Technolical University	
12	Gayathri.A	1DA19PMA01	Female	2019	PT	Some contributionsto the studyofRainbow coloringingraphs	Dr. R. Murali	Visvesvaraya Technolical University	
13	Yogalakshmi S	1DA15PGJ03	Female	2015	FT	Certain Classes of Multilevel Distance Labeling	Dr. B. Sooryanarayana	Visvesvaraya Technolical University	
14	Ramya	1DA16PGJ06	Female	2016	FT	Radiograceful Graphs and their nice characterization	Dr. B. Sooryanarayana	Visvesvaraya Technolical University	
15	Silvia LeeraSequeira	1DA15PGJ02	Female	2015	PT	On Certain Alliances in Graphs	Dr. B. Sooryanarayana	Visvesvaraya Technolical University	

Dr.Ambedkar Institute of Technology, Bengaluru-56  
Name of the Research Centre: Department of Mathematics

16	SunithaPriya ad'Silva	1DA16PGJ08	Female	2016	PT	Difference labelling of graphs	Dr. B. Sooryanarayana	Visvesvaraya Technolglcal University	
17	Suma AS	1DA16PGJ07	Female	2016	PT	Neighbourhood Resolving sets and dimensions in Graphs	Dr. B. Sooryanarayana	Visvesvaraya Technolglcal University	
18	Mitra K	IDA17PGA04	Female	2017	PT	Alliances and secure sets in graphs	Dr. B. Sooryanarayana	Visvesvaraya Technolglcal University	
19	LalitaLama ni	1DA16PGJ05	Female	2016	FT	Certain classes of neighbourhood locating dominating sets and their properties	Dr. B. Sooryanarayana	Visvesvaraya Technolglcal University	
20	Padma MM	1DA15PGJ07	Female	2015	PT	Certain classes of Rational Resolving sets of a Graph and their dimension	Dr.Jayalakshmi M	Visvesvaraya Technolglcal University	
21	Divya R	1DA16PGJ03	Female	2016	PT	A study of Pseudo chromatic Polynomial associated with various types of coloring of Graphs	Dr.Jayalakshmi M	Visvesvaraya Technolglcal University	
22	Prabhavati G Angadi	1DA17PGA03	Female	2017	PT	A study on contact manifolds and itssubmanifolds	Dr.Shivaprasanna G S	Visvesvaraya Technolglcal University	
23	MD SamiulHaqu e	1DA17PGA01	Male	2017	PT	A Study On Ricci solitons In Riemannian manifolds	Dr.Shivaprasanna G S	Visvesvaraya Technolglcal University	

Ph.D. Pursuing:2020

Sl	Name of the	USN	Gender	Year	Full	Title of the Research	Name of the	Name of the	Link:
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Department of Mathematics  
Dr. Ambedkar Institute of Technology  
Bengaluru-560056.

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Bengaluru-560 056

No	Student			of Regi strati on	Time- FT/Pa rt time- PT		Research Supervisor/Co- Supervisor	University	Appro ved letter
1	Nataraj N	1DA11PGM0 2	Male	2011	PT	Investigation on convective instability of ferrofluid in a porous medium with or without micropolar fluid	Dr. C. E. Nanjundappa	Visvesvaraya Technolgy University	
2	Ashwini R	1DA16PGJ10	Female	2015	PT	Study on Electro thermal Convection in Dielectric Fluid Saturated Porous Medium under AC Electric Field	Dr. C. E. Nanjundappa	Visvesvaraya Technolgy University	
3	Savitha Y L	1DA16PGJ09	Female	2015	PT	Studies on Effects of Various types of Boundary Conditions on Thermo magnetic Convection in Ferrofluid Saturated Porous Medium	Dr. C. E. Nanjundappa	Visvesvaraya Technolgy University	
4	Pavithra A	1DA16PGJ11	Female	2015	PT	Linear stability analysis of Thermoconvective problems for Micropolar fluids in a porous medium with or without ferromagnetic fluids	Dr. C E Nanjundappa	Visvesvaraya Technolgy University	
5	Bhavya S	1DA16PGJ02	Female	2015	PT	Investigation on Nonuniform basic temperature gradient effects on heat transfer through Magnetized Nanofluids	Dr. C E Nanjundappa	Visvesvaraya Technolgy University	
6	R Mahesh Kumar	1DA15PGJ08	Male	2014	PT	Investigations on Penetrative Convection Via Internal Heating in Ferromagnetic Fluids	Dr. C E Nanjundappa	Visvesvaraya Technolgy University	
7	Seema H R	1DA17PGA0 2	Female	2017	PT	A Study of Combinatori al Properties in Graphs	Dr. R. Murali	Visvesvaraya Technolgy	

Dr.Ambedkar Institute of Technology, Bengaluru-56  
Name of the Research Centre: Department of Mathematics

								University	
8	Gayathri.A	1DA19PMA01	Female	2019	PT	Some contribution to the study of Rainbow coloring in graphs	Dr. R. Murali	Visvesvaraya Technological University	
9	Sunitha Priya D'Silva	1DA16PGJ08	Female	2016	PT	Difference labelling of graphs	Dr. B. Sooryanarayana	Visvesvaraya Technological University	
10	Suma AS	1DA16PGJ07	Female	2016	PT	Neighbourhood Resolving sets and dimensions in Graphs	Dr. B. Sooryanarayana	Visvesvaraya Technological University	
11	Mitra K	IDA17PGA04	Female	2017	PT	Alliances and secure sets in graphs	Dr. B. Sooryanarayana	Visvesvaraya Technological University	
12	Lalita Laman i	1DA16PGJ05	Female	2016	FT	Certain classes of neighbourhood locating dominating sets and their properties	Dr. B. Sooryanarayana	Visvesvaraya Technological University	
13	Divya R	1DA16PGJ03	Female	2016	PT	A study of Pseudo chromatic Polynomial associated with various types of coloring of Graphs	Dr. Jayalakshmi M	Visvesvaraya Technological University	
14	Prabhavati G Angadi	1DA17PGA03	Female	2017	PT	A study on contact manifolds and its submanifolds	Dr. Shivaprasanna G S	Visvesvaraya Technological University	
15	MD Samiul Haque	1DA17PGA01	Male	2017	PT	A Study On Ricci solitons In Riemannian manifolds	Dr. Shivaprasanna G S	Visvesvaraya Technological University	

Ph.D. Pursuing: 2021

Sl N	Name of the Student	USN	Gender	Year of Registr	Full Time-	Title of the Research	Name of the Research	Name of the University	Link: Appro
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Bengaluru-560 056

o				ation	FT/Part time- PT		Supervisor/Co- Supervisor		ved letter
1	Pavithra A	1DA16PGJ11	Female	2015	PT	Linear stability analysis of Thermoconvective problems for Micropolar fluids in a porous medium with or without ferromagnetic fluids	Dr. C E Nanjundappa	Visvesvaraya Technolical University	
2	Bhavya S	1DA16PGJ02	Female	2015	PT	Investigation on Nonuniform basic temperature gradient effects on heat transfer through Magnetized Nanofluids	Dr. C E Nanjundappa	Visvesvaraya Technolical University	
3	R Mahesh Kumar	1DA15PGJ08	Male	2014	PT	Investigations on Penetrative Convection Via Internal Heating in Ferromagnetic Fluids	Dr. C E Nanjundappa	Visvesvaraya Technolical University	
4	Seema H R	1DA17PGA02	Female	2017	PT	A Study of Combinatorial Properties in Graphs	Dr. R. Murali	Visvesvaraya Technolical University	
5	Gayathri.A	1DA19PMA01	Female	2019	PT	Some contributions to the study of Rainbow coloring in graphs	Dr. R. Murali	Visvesvaraya Technolical UniveKrsity	
6	Suresha . K	1GA17PGA03	Male	2021	PT	A Study on some coloring problems in graphs	Dr. R. Murali	Visvesvaraya Technolical UniveKrsity	
7	Chaitra. A.C	1DA20PMA01	Female	2021	PT	A Study on graph coloring and its applications	Dr. R. Murali	Visvesvaraya Technolical UniveKrsity	
8	Priyanka. B	1DA20PMA02	Female	2021	PT	A Study on some graph	Dr. R. Murali	Visvesvaraya	



Dr.Ambedkar Institute of Technology, Bengaluru-56  
Name of the Research Centre: Department of Mathematics

						coloring problems		Technolglcal UniveKrsity	
7	LalitaLamani	1DA16PGJ05	Female	2016	FT	Certain classes of neighbourhood locating dominating sets and their properties	Dr. B. Sooryanarayana	Visvesvaraya Technolglcal University	
9	Divya R	1DA16PGJ03	Female	2016	PT	A study of Pseudo chromatic Polynomial associated with various types of coloring of Graphs	Dr.Jayalakshmi M	Visvesvaraya Technolglcal University	
10	Prabhavati G Angadi	1DA17PGA03	Female	2017	PT	A study on contact manifolds and itssubmanifolds	Dr.Shivaprasanna G S	Visvesvaraya Technolglcal University	
11	MD SamiulHaque	1DA17PGA01	Male	2017	PT	A Study On Ricci solitons In Riemannian manifolds	Dr.Shivaprasanna G S	Visvesvaraya Technolglcal University	

Ph.D. Pursuing:2022

Sl No	Name of the Student	USN	Gender	Year of Registration	Full Time-FT/Part time-PT	Title of the Research	Name of the Research Supervisor/Co-Supervisor	Name of the University	Link: Approved letter
1	R Mahesh Kumar	1DA15PGJ08	Male	2014	PT	Investigations on Penetrative Convection Via Internal Heating in Ferromagnetic Fluids	Dr. C E Nanjundappa	Visvesvaraya Technolglcal University	
2	Rachitha CS	1DA20PMA03	Female	2021	FT		Dr. C.E. Nanjundappa	Visvesvaraya Technolglcal University	
3	Seema HR	1DA17PGA02	Female	2017	PT	A Study ofCombinatorial PropertiesinGraphs	Dr. R. Murali	Visvesvaraya Technolglcal	

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4	Gayathri.A	1DA19PMA01	Female	2019	PT	Some contribution to the study of Rainbow coloring in graphs	Dr. R. Murali	University Visvesvaraya Technological University
5	Suresha . K	1GA17PGA03	Male	2021	PT	A Study on some coloring problems in graphs	Dr. R. Murali	Visvesvaraya Technological University
6	Chaitra. A.C	1DA20PMA01	Female	2021	PT	A Study on graph coloring and its applications	Dr. R. Murali	Visvesvaraya Technological University
7	Priyanka. B	1DA20PMA02	Female	2021	PT	A Study on some graph coloring problems	Dr. R. Murali	Visvesvaraya Technological University
8	Reshma	1DA20PMA04	Female	2022	PT	On graph theoretical models of certain classes of spreads	Dr. Jayalakshmi M	Visvesvaraya Technological University
9	MD SamiulHaque	1DA17PGA01	Male	2017	PT	A Study On Ricci solitons In Riemannian manifolds	Dr. Shivaprasanna G S	Visvesvaraya Technological University

Sl No	No of PhD Pursuing (Numbers only)			
	2019	2020	2021	2022
	23	15	11	9

Total Number of PhD pursuing up to 2022:

Total Number of Ph.D pursuing from 2019 to 2022:

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BOARD OF STUDIES  
VIT-AP  
VIT-AP

Dr.Ambedkar Institute of Technology, Bengaluru-56  
Department of Mathematics

List of MSc by Research. awarded

MSc by Research awarded:2019 : Nil

Sl No	Name of the Student	USN	Name of the Research Supervisor/Co-Supervisor	Title of the Thesis	Name of the University	Date of Completion of the MSc by Research	Link: Abstract of the Thesis

MSc by Research awarded:2020 : Nil

Sl No	Name of the Student	USN	Name of the Research Supervisor/Co-Supervisor	Title of the Thesis	Name of the University	Date of Completion of the MSc by Research	Link: Abstract of the Thesis

MSc by Research awarded:2021 : Nil

Sl No	Name of the Student	USN	Name of the Research Supervisor/Co-Supervisor	Title of the Thesis	Name of the University	Date of Completion of the MSc by Research	Link: Abstract of the Thesis

MSc by Research awarded:2022 : Nil

Sl No	Name of the Student	USN	Name of the Research Supervisor/Co-Supervisor	Title of the Thesis	Name of the University	Date of Completion of the MSc by Research	Link: Abstract of the Thesis

Total Number of MSc by Research awarded up to 2018: Nil

Total Nuber of MSc by Research awarded up to 2022: Nil

Total Number of MSc by Research awarded from 2019 to 2022: :Nil

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Dr.Ambedkar Institute of Technology, Bengaluru-56  
Department of Mathematics

Research Facilities available:

Vision:

The department of mathematics envisages to be a centre of excellence in mathematics through vigorous engagement in teaching, research and training.

Mision:

- To transform the budding engineers into competent and motivated professionals with sound theoretical and practical knowledge in mathematics.
- To engender post graduate students with strong foundation and motivation to opt for research and development as a carrier.
- To create an atmosphere conducive to high class interdisciplinary research and to produce researchers with strong analytical skills and vision who can in future become experts in various areas of research in mathematics.
- To contribute to the development of the nation through teaching, research and training.

Research Facility:

Description:

Sl. No.	Description	No.
1	Computer Desktops	4
2	UPS	2
3	LaserJet Multifunctional Printers	2
4	LCD Projectors	1
5	Softwares	2

List of Major Equipment (> 5 Lakhs):

Equipment	Quantity	Amount
Wolfram Mathematica 12.0	05	Rs. 7,69,596.00

List of Minor Equipment (<5 Lakhs):

Equipment	Quantity	Amount
1. Designing software (version 2.0)	03	Rs. 1,27,134.00
2. Origin lab V2021		

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Research Areas:

1. Graph Theory and Combinatorics
2. Fluid Mechanics
3. Differential Geometry
4. Algebraic Graph Theory
5. Algorithmic Graph Theory
6. Mathematical Chemistry
7. Heat and Mass Transfer
8. Boundary layer theory
9. Convection in Porous media
10. Riemannian manifolds

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Dr.Ambedkar Institute of Technology, Bengaluru-56  
Department of Mathematics  
**International Journals**

Faculty Publications: 2019

Sl. No	Name of the Faculty/Name of the Guide	U S N	Title of the Paper	Research description	DOI	PP	Vo l.N O	Issu e No	Year	Link
1.	Dr. C.E Nanjundappa		Penetrative Electro-Thermal-Convection in a Dielectric Fluid-Saturated Porous Layer Via Internal Heating: Effect of Boundary Conditions	Fluid Mechanics- Convection in a Dielectric Fluid	10.1007/s40819-019-0619-x	1-7	5		2019	<a href="https://doi.org/10.1007/s40819-019-0619-x">https://doi.org/10.1007/s40819-019-0619-x</a>
2	Dr. R. Murali		Complementary edge domination in Shadow distance graphs,	Graph Theory- edge domination	10.7251/BIMVI1901047	. 47-56	9	1	2019	DOI: 10.7251/BIMVI1901047
3	Dr. R. Murali		Hamiltonian laceability in the shadow distance graph of path graphs	G Hamiltonian laceability graph Theory-	10.26637/MJM0701/0023	118-121	7	1	2019	DOI: 10.26637/MJM0701/0023
4	Dr. R. Murali		Laceability properties in Edge tolerant Shadow graphs.	Graph Theory- Laceability properties	10.7251/BIMVI1903463G	47-56	Vo l. 9	Issu e-3	2019	DOI: 10.7251/BIMVI1903463G
5	Dr. R. Murali		Chaotic Binary Sequence Generator based on Logistic Map.	Graph Theory- Chaotic Binary Sequence	10.35940/ijrte.D5297.118419	7351-7355	Vo l. 8	Issu e 4	2019	DOI: 10.35940/ijrte.D5297.118419
6	Dr. R. Murali		Laceability in Hanoi graphs	Graph Theory- Laceability	<a href="https://doi.org/10.26713/jims.v11i3-4.789">10.26713/jims.v11i3-4.789</a>	273-279	Vo l. 11	Nos. 3-4	2019	<a href="https://doi.org/10.26713/jims.v11i3-4.789">https://doi.org/10.26713/jims.v11i3-4.789</a>
7	Dr.SunithaKulk		Rainbow coloring in	Graph Theory-	10.26637/MJM0701/	127-131	Vo	No.	2019	<a href="https://doi.org/10.26637/MJM0701/">https://doi.org/10.26637/MJM0701/</a>

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	arni/ Dr. R. Murali		some corona product graphs	Rainbow coloring	<u>0025</u>		1.7	1		<u>0.26637/MJM0701/0025</u>
8	Dr.SunithaKulkarni/ Dr. R. Murali		Star Rainbow connection in brick product graphs	Graph Theory-Star rainbow coloring		1639-1649	18	12	2019	<a href="https://www.mililink.com/issue_content.php">https://www.mililink.com/issue_content.php</a>
9	Dr.Jayalakshmi M		On classes of rational resolving sets of derived graphs of path	Concept of rational resolving sets	10.17654MS110020247	247-259	110	2	2019	<a href="http://dx.doi.org/10.17654/MS110020247">http://dx.doi.org/10.17654/MS110020247</a>
10	Dr. B. Sooryanarayana		Non-neighbor sum-connectivity index and ABC index	ActaUniversitatisMatthiaeBelii, series Mathematics		43-58	1	1	2019	<a href="https://actamath.savbb.sk/pdf/auamb2702.pdf">https://actamath.savbb.sk/pdf/auamb2702.pdf</a>
11	Dr. B. Sooryanarayana		On Realization and Charactrization of Topological indices	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	<u>10.35940/ijitee.A4135.119119</u>	715-718	9	1	2019	<a href="https://doi.org/10.35940/ijitee.A4135.119119">https://doi.org/10.35940/ijitee.A4135.119119</a>
12	Dr. B. Sooryanarayana		Radio Multiplicative number of certain Classes of Transformation Graphs	International journal of Mathematics and its applications		127-148	7	4	2019	<a href="http://ijmaa.in/v7n4/127-148.pdf">http://ijmaa.in/v7n4/127-148.pdf</a>
13	Dr. B. Sooryanarayana		Bounds of Some Topological indices of the cartesian product of F-sum Graphs	Journal of Informatics and Mathematical Sciences	<u>10.26713/jims.v1i1i3-4.1307</u>	323-330	11	3-4	2019	<a href="https://doi.org/10.26713/jims.v1i1i3-4.1307">https://doi.org/10.26713/jims.v1i1i3-4.1307</a>
14	Dr. B. Sooryanarayana		On the Neighborhoodalliance sets in a graph	Journal of Advanced research in dynamical and control systems	<u>10.5373/JARDCS/V11I10/20193007</u>	66-74	11	10	2019	<a href="https://doi.org/10.5373/JARDCS/V11I10/20193007">https://doi.org/10.5373/JARDCS/V11I10/20193007</a>
15	Dr. B. Sooryanarayana		Non-Neighbor Reduced Randic and Sum-connectivity index	International journal of Mathematics and its applications		127-148	7	4	2019	<a href="http://ijmaa.in/v7n4/127-148.pdf">http://ijmaa.in/v7n4/127-148.pdf</a>



16	Dr. B. Sooryanarayana	Multiplicative connectivity indices of Tri-Hexagonal Boron Nanotube and Nanotori	Journal of Informatics and Mathematical Sciences	<a href="https://doi.org/10.26713/jims.v11i3-4.1306">10.26713/jims.v11i3-4.1306</a>	313-322	11	3-4	2019	<a href="https://doi.org/10.26713/jims.v11i3-4.1306">https://doi.org/10.26713/jims.v11i3-4.1306</a>
17	Dr. B. Sooryanarayana	Accurate Neighborhood Resolving sets of a graph	International Journal of Applied Engineering Research		3460-3463	14	15	2019	<a href="https://www.ripublication.com/ijaer19/ijaerv14n15_19.pdf">https://www.ripublication.com/ijaer19/ijaerv14n15_19.pdf</a>
18	Dr. B. Sooryanarayana	Cordiality of Transformation Graphs of a path	International journal of Mathematics and its applications		11-21	7	3	2019	<a href="http://ijmaa.in/v7n3/11-21.pdf">http://ijmaa.in/v7n3/11-21.pdf</a>
19	Dr. B. Sooryanarayana	Radio Number of kth transformation graphs of a path	International Journal of Applied Graph Theory		39-62	3	2	2019	<a href="https://www.ijagt.com/article-issues/?id=17">https://www.ijagt.com/article-issues/?id=17</a>
20	Dr. B. Sooryanarayana	Dominating Function and Cayle graphs	International Journal of Applied Engineering Research		2553-2558	14	11	2019	<a href="https://www.ripublication.com/ijaer19/ijaerv14n11_05.pdf">https://www.ripublication.com/ijaer19/ijaerv14n11_05.pdf</a>
21	Dr. B. Sooryanarayana	Unique metro domination number of circulant graphs	International Journal of Mathematical Combinatorics		53-61	1		2019	<a href="http://fs.unm.edu/IJMC/UniqueMetroDominationNumber.pdf">http://fs.unm.edu/IJMC/UniqueMetroDominationNumber.pdf</a>
22	Dr. B. Sooryanarayana	Metric dimension of generalised wheels	Arab Journal of Mathematical Sciences	<a href="https://doi.org/10.1016/j.ajmsc.2019.04.002">10.1016/j.ajmsc.2019.04.002</a>	131-144	25	2	2019	<a href="https://doi.org/10.1016/j.ajmsc.2019.04.002">https://doi.org/10.1016/j.ajmsc.2019.04.002</a>
23	Dr. B. Sooryanarayana	Radio Number of transformation graphs of a cycle	International Journal of Applied Engineering Research		2553-2558	14	11	2019	<a href="https://www.ripublication.com/ijaer19/ijaerv14n5_21.pdf">https://www.ripublication.com/ijaer19/ijaerv14n5_21.pdf</a>
24	Dr. B. Sooryanarayana	Strong alliances in graphs	Communications in Combinatorics and Optimization	<a href="https://doi.org/10.22049/CCO.2018.25921.1056">10.22049/CCO.2018.25921.1056</a>	1-13	4	1	2019	<a href="https://doi.org/10.22049/CCO.2018.25921.1056">https://doi.org/10.22049/CCO.2018.25921.1056</a>

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25	Dr.Jayalakshmi M		On classes of rational resolving sets of derived graphs of path	Concept of rational resolving sets	10.17654MS110020247	247-259	110	2	2019	<a href="http://dx.doi.org/10.17654/MS110020247">http://dx.doi.org/10.17654/MS110020247</a>
26	Bhavya S		Effect of Exponentially Temperature-Dependent Viscosity on the Onset of Penetrative Ferro-Thermal-Convection in a Saturated Porous Layer via Internal Heating		<a href="http://dx.doi.org/10.4236/jemaa.2019.117007">10.4236/jemaa.2019.117007</a>	101-116	11	1942-0749	2019	<a href="http://www.scirp.org/journal/jemaa">http://www.scirp.org/journal/jemaa</a>

## Faculty Publications: 2020

Sl. No	Name of the Faculty/Name of the Guide	U S N	Title of the Paper	Research description	DOI	PP	Vol.N O	Issue No	Year	Link
1	Dr. C.E Nanjundappa		Quadratic density and viscosity variations on electro-thermal-convection in a dielectric fluid-saturated porous layer	Fluid Mechanics-electro-thermal-convection in a dielectric fluid-saturated porous layer	10.1063/5.0029976	020032	2297	1	2020	<a href="https://doi.org/10.1063/5.0029976">10.1063/5.0029976</a>
2	Dr. C.E Nanjundappa		Boundary condition effects on ferro-thermal-convection in a ferrofluid-saturated porous layer with uniform volumetric	Fluid Mechanics-ferro-thermal-convection in a ferrofluid	10.1063/5.0030033	020017	2297	1	2020	<a href="https://aip.scitation.org/doi/abs/10.1063/5.0030033">https://aip.scitation.org/doi/abs/10.1063/5.0030033</a>

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 Department of Applied Science  
 Dr. B.R. Ambedkar Institute of Technology  
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		energy sources								
3	Dr. C.E Nanjundappa	Buoyancy-surface tension driven forces on electro-thermal-convection in a rotating dielectric fluid-saturated porous layer: effect of cubic temperature gradients		10.1007/s42452-019-1904-3	146	2	2			<a href="https://link.springer.com/article/10.1007/s42452-019-1904-3">https://link.springer.com/article/10.1007/s42452-019-1904-3</a>
4	Dr. C.E Nanjundappa	Internally heated gravity driven convection in a saturated porous layer dielectric fluid	Fluid Mechanics- Internally heated gravity	10.1063/5.0029757	020030	2297	1	2020		<a href="https://aip.scitation.org/doi/abs/10.1063/5.0029757">https://aip.scitation.org/doi/abs/10.1063/5.0029757</a>
5	Dr. C.E Nanjundappa	Penetrative Thermomagnetic Convection in a Micropolar Ferrofluid Layer via Internal Heating			30-50	11	2	2020		<a href="https://drive.google.com/file/d/1zc08MtiTubS-OqmD0An6kyDCeTU-Sewu/view?usp=drivesdk">https://drive.google.com/file/d/1zc08MtiTubS-OqmD0An6kyDCeTU-Sewu/view?usp=drivesdk</a>
6	Dr. R. Murali	Domination and s-path domination in some brick product graphs	Graph Theory- Domination	10.26637/MJM0801/0043	254-257	8	1	2020		<a href="https://doi.org/10.26637/MJM0801/0043">https://doi.org/10.26637/MJM0801/0043</a>
7	Dr. R. Murali	Edge domination in some brick product graphs	Graph Theory- edge Domination		173-180	10	1	2020		<a href="http://jaem.isikun.edu.tr/web/index.php/archive/104">http://jaem.isikun.edu.tr/web/index.php/archive/104</a>
8	Dr. R. Murali	Domination and s-path domination in brick product graphs of some			35-43	11,	2	2020		<a href="https://www.malayajournal.org/archive/">https://www.malayajournal.org/archive/</a>

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		odd cycle graphs.							selected article.php?id=866
9	Dr. R. Murali	Edge domination in some image graphs.		<a href="https://doi.org/10.37896/GOR33.02/069">10.37896/GOR33.02/069</a>	611-620	33	2	2020	DOI:10.37896/GOR33.02/069
10	Dr. R. Murali	Laceability properties in edge tolerant corona product graphs			734-740	10,	3	2020	<a href="https://jaem.istikun.edu.tr/web/images/articles/vol.10.no.3/20.pdf">https://jaem.istikun.edu.tr/web/images/articles/vol.10.no.3/20.pdf</a>
11	Dr. R. Murali	Performance evaluation of chaotic spreading codes in massive MIMO OFDM sytem		<a href="https://doi.org/10.17485/IJST/v13i42.2027">10.17485/IJST/v13i42.2027</a>	4374-4385	13	C	2020	DOI: 10.17485/IJST/v13i42.2027
12	Dr.Jayalakshmi M	Neighborhood Pseudo chromatic polynomial of a path	On chromatic polynomial	<a href="https://doi.org/10.28919/jmcs/4318">10.28919/jmcs/4318</a>	219-235	10	2	2020	<a href="http://doi.org/10.28919/jmcs/4318">http://doi.org/10.28919/jmcs/4318</a>
13	Dr.Jayalakshmi M	$k$ -local resolving and rational resolving sets of graphs	On rational resolving sets		15-20	2	2	2020	<a href="http://www.ijesm.vtu.ac.in/index.php/IJESM/article/view/506/98">http://www.ijesm.vtu.ac.in/index.php/IJESM/article/view/506/98</a>
14	Dr.Jayalakshmi M	Neighborhood Pseudo chromatic polynomial of graphs	On chromatic polynomial	<a href="https://doi.org/10.37622/IJAER/15.8.2020.817-822">10.37622/IJAER/15.8.2020.817-822</a>	817-822	15	8	2020	<a href="http://ripublishation.com/ijaer20/ijaerv15n8_10.pdf">http://ripublishation.com/ijaer20/ijaerv15n8_10.pdf</a>
15	Dr.Jayalakshmi M	Variety of rational resolving sets of corona	On rational resolving sets	<a href="https://doi.org/10.37418/amsj.9.10">10.37418/amsj.9.10</a>	8367-8374	9	10	2020	<a href="http://doi.org/10.37418">http://doi.org/10.37418</a>

		product of graphs		66					/amsj.9.10.66
16	Dr.Jayalakshmi M	Variety of Rational Resolving sets of power of a cycle	On rational resolving sets		4162-4167	83		2020	<a href="http://testmagzine.biz/index.php/testmagzine/article/view/13632/10416">http://testmagzine.biz/index.php/testmagzine/article/view/13632/10416</a>
17	Nagarathnamma H / Dr. Suma S P	Combined impact of variable internal heat source and variable viscosity on the onset of convective motion in a porous layer		<a href="#">10.26637/MJM0803/0042</a>	973-976	8	03	2020	<a href="#">10.26637/MJM0803/0042</a>
18	Nagarathnamma H / Dr. Suma S P	Effects of variable internal heat source and variable gravity field on convection in a porous layer		<a href="#">10.26637/MJM0803/0031</a>	915-919,	8	3	2020	<a href="#">10.26637/MJM0803/0031</a>
19	Nagarathnamma H / Dr. Suma S P	Marangoni convection in superposed fluid and anisotropic porous layers with throughflow		<a href="#">10.26637/MJM0803/0019</a>	845-851	8	3	2020	<a href="#">10.26637/MJM0803/0019</a>
20	Shivaprasanna G S	$\eta$ -Ricci soliton in three-dimensional $(\epsilon, \delta)$ -trans-Sasakian manifold.	$\eta$ -Ricci soliton in three-dimensional $(\epsilon, \delta)$ -trans-Sasakian manifold		13-26	11	3	2020	[PDF] from <a href="http://druckhaus-hofmann.de">druckhaus-hofmann.de</a>

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21	Dr Prabhavati G angadi /Dr Shivaprasanna G S	RICCI-YAMABE SOLITONS ON SUBMANIFOLDS OF SOME INDEFINITE ALMOST CONTACT MANIFOLDS	Ricci-Yamabesoliton on invariant and antiinvariantsubmani folds of indefinite Sasakian manifolds	10.37 418/amsj.9.11. 114	10067 - 10080	9	11	2020	[PDF] from researchgate. net
22	Shivaprasanna G S	CR-Sub-Manifolds of $(\epsilon, \delta)$ -Trans-Sasakian Manifolds Admitting Generalized Symmetric Metric Connection	A new connection on $(\rho, \delta)$ -trans-Sasakian manifolds is introduced .		56-64	3		2020	acade mia.ed u
23	Shivaprasanna G S	$\eta$ -Ricci solitons in $\alpha$ -parakenmotsu manifolds	The moto of the paper is to examine " $\eta$ -Ricci solitons" in " $\alpha$ -paraKenmotsu manifolds" with second order parallel tensor.	10.1088/1742 - 6596/1597/1/ 012032	01320 32	1597		2020	Doi:10.1088/1 742- 6596/1597/1/0 12032
24	Shivaprasanna G S	$\eta$ -Ricci Yamabesoliton on LP-Sasakian manifolds	Concept of $\eta$ -Ricci Yamabesoliton on LP-Sasakian manifolds		6242- 6255	11	5	2020	[PDF] from scik.org
25	Dr. B. Sooryanarayana	Accurate Alliances in Graphs	Journal of Advanced research and control systems	10.53 73/JARDCS/V 12I4/2020143 4	203- 215	12	4	2020	DOI: 10.5373/ JARDCS/V12I 4/20201434
26	Dr. B. Sooryanarayana	On the upper security number of a graph	Communications in optimization theory	10.23952/cot.2 020.12	1-10	12	1	2020	DOI: 10.23952/cot.2 020.12
27	Dr. B. Sooryanarayana	Chromatic number of tranformation graphs of a	International Journal of Grid and		680- 686	13	1	2020	http://sersec.org /journals/index



		path	Distributed Computing						<a href="#">.php/IJGDC/article/view/11757</a>
28	Dr. B. Sooryanarayana	On radio graceful labeling of a graph	International Journal of Advanced Science and Technology	<a href="http://sersec.org/journals/index.php/IJAST/issue/view/275">http://sersec.org/journals/index.php/IJAST/issue/view/275</a>	108-114	29	6	2020	<a href="http://sersec.org/journals/index.php/IJAST/index">http://sersec.org/journals/index.php/IJAST/index</a>
29	Dr. B. Sooryanarayana	Zagreb indices at a distance 2	J. Math. Comput. Sci.	<a href="http://www.ijagt.com/?media_dl=543">10.28919/jmcs/4396</a>	639-655	10	3	2020	<a href="http://scik.org/index.php/jmcs">http://scik.org/index.php/jmcs</a>
30	Dr. B. Sooryanarayana	Non-neighbor F-index and Randic index	International Journal of Applied Graph Theory	<a href="http://www.ijagt.com/?media_dl=543">http://www.ijagt.com/?media_dl=543</a>	29-49	4	1	2020	<a href="https://www.ijagt.com/">https://www.ijagt.com/</a>
31	Dr. B. Sooryanarayana	Some degree based topological indices of tranformation graphs	Bulletin of the International Mathematical virtual institute	<a href="http://www.imvibl.org/bulletin.htm">10.7251/BIMV12002225R</a>	225-237	10	2	2020	<a href="http://www.imvibl.org/bulletin.htm">http://www.imvibl.org/bulletin.htm</a>
32	Dr. B. Sooryanarayana	Mod difference labeling of some classes of digraphs	Malaya Journal of Mathematick	<a href="https://www.malayajournal.org/articles/MJM08010006.pdf">10.26637/MJM0801/0006</a>	32-36	8	1	2020	<a href="https://www.malayajournal.org/articles/MJM08010006.pdf">https://www.malayajournal.org/articles/MJM08010006.pdf</a>
33	Dr. B. Sooryanarayana	Neighborhood Resolving Sets of a Graph	International Journal of Applied Engineering Research	<a href="https://www.ripublication.com/ijaer20/ijaerv15n8_03.pdf">http://www.ripublication.com/ijaer20/ijaerv15n8_03.pdf</a>	778-782	15	8	2020	<a href="https://www.ripublication.com/ijaer.htm">https://www.ripublication.com/ijaer.htm</a>
34	Dr. B. Sooryanarayana	Accurate Neighborhood Resolving Number of a Graph	Advances in Mathematics:Scientific Journal	<a href="https://researchpublication.com/?page_id=9">10.37418/amsj9.9.69</a>	7201-7210		9	2020	<a href="https://researchpublication.com/?page_id=9">https://researchpublication.com/?page_id=9</a>

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## Faculty Publications: 2021

Sl. No	Name of the Faculty/Name of the Guide	U S N	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.N O	Issue No	Year	Link
1	Dr. C.E Nanjundappa		Internally heated penetrative Bénard-Marangoni ferroconvection: Effect of MFD viscosity		10.1063/5.0039846	020038	2327	1	2021	<a href="https://doi.org/10.1063/5.0039846">https://doi.org/10.1063/5.0039846</a>
2	Dr. R. Murali		Tadpole graphs and their Laceability	Graph Theory-Laceability	10.48047/IJEMR/V10/I04/31	393-397	10	4	2021	DOI: 10.48047/IJEMR/V10/I04/31
3	Dr. R. Murali		On Hinge Domination in graphs		10.28919/jmcs/6089.	5670-5681	11	5		DOI: <a href="https://doi.org/10.28919/jmcs/6089">https://doi.org/10.28919/jmcs/6089</a> .
4	Dr. R. Murali		The (a, b)-Status Index Exponential of Graphs			8000-8013		6	2021	<a href="https://www.publishoa.com/index.php/journal/article/view/449">https://www.publishoa.com/index.php/journal/article/view/449</a>
5	Dr.SunithaKulkarni/ Dr. R. Murali		Rainbow dominator coloring in graphs			122-130	10	II	2021	<a href="https://pjm.ppu.edu/sites/default/files/papers/PJM_Special_Issue_July_2021_122to_130.pdf">https://pjm.ppu.edu/sites/default/files/papers/PJM_Special_Issue_July_2021_122to_130.pdf</a>
6	Dr.Jayalakshmi M / Dr. B.		An Outer Mod Sum Labeling of the graph	On graph labeling		online	50	4	2021	<a href="https://app.box.com/s/yv8op9o">https://app.box.com/s/yv8op9o</a>

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7	Dr.Jayalakshmi M	On neighborhood pseudo achromatic number of graphs	On achromatic number of graphs	10.37897. GRJ.2021. V8I6.21.19 0	121- 126	7	6	2021	<a href="https://drive.google.com/file/d/1CrYk2339RuVbx_UTfFBE-BxIENFGOYOS/view">https://drive.google.com/file/d/1CrYk2339RuVbx_UTfFBE-BxIENFGOYOS/view</a>
8	Dr.Jayalakshmi M / Dr. B. Sooryanarayana	Powerful and maximal rational metric dimension of a wheel	On rational metric dimension	10.28919/jmcs/6190	online	11	5	2021	<a href="https://doi.org/10.28919/jmcs/6190">https://doi.org/10.28919/jmcs/6190</a>
9	Dr.Jayalakshmi M	On classes of rational resolving sets of power of a path	On rational metric dimension	10.14317/jami.2021.689	689 - 701	39	5	2021	<a href="http://koreascience.or.kr/article/JAKO202127948057896.pdf">http://koreascience.or.kr/article/JAKO202127948057896.pdf</a>
10	Dr.Nagarathnamma H / Dr. Suma S P	Combined Impact of Vertical Throughflow and Gravity Variance on Darcy-Brinkman convection in a Porous Matrix		10.36963/IJTS.2021080303	080303	8	3	2021	<a href="https://doi.org/10.36963/IJTS.2021080303">https://doi.org/10.36963/IJTS.2021080303</a>
11	Dr.Nagarathnamma H / Dr. Suma S P	Double-diffusive penetrative convection in a fluid overlying a porous layer		10.36963/IJTS.2022090103	090103	9		2021	<a href="https://doi.org/10.36963/IJTS.2022090103">https://doi.org/10.36963/IJTS.2022090103</a>
12	Dr.Nagarathnamma H / Dr. Suma S P	Effects of variable heat source on convective motion in an anisotropic porous layer		10.1088/1757-899X/1070/1/012018	012018	1070		2021	<b>DOI</b> 10.1088/1757-899X/1070/1/012018

13	Dr. Prabhavati Gangadi /Shivaprsanna G.S	Ricci solitons on (LCS)-manifolds under D-homothetic deformation	To study Ricci solitons in LCS-manifolds under D-homothetic deformation .		672-683	46		2021	[PDF] from <a href="http://uniud.it">uniud.it</a>
14	Shivaprsanna G.S	Invariant submanifold of generalized Sasakian space form with semi-symmetric metric connection	On Invariant submanifold of generalized Sasakian space		1-7	x		2021	[PDF] from <a href="http://mtjpamjournal.com">mtjpamjournal.com</a>
15	Shivaprasanna G. S	$\eta$ -Ricci Yamabesoliton on LP-Sasakian manifolds	$\eta$ -Ricci Yamabesoliton on conditions for the $\eta$ -Ricci Yamabesolitons to be shrinking, expanding or steady.	10.28919/jmcs/6253	6242-6255	11	5	2021	[PDF] from <a href="http://scik.org">scik.org</a>
16	Shivaprasanna G. S/ Dr Prabhavati Gangadi	$\eta$ -YAMABE SOLITON ON 3-DIMENSIONAL $\alpha$ -PARA KENMOTSU MANIFOLD	Few properties of 3-dimensional $\alpha$ -Para Kenmotsu manifold whose metric is $\eta$ -Yamabesolitons.		29-37	1	1	2021	<a href="https://www.researchgate.net/publication/352383286_e-YAMABE_SOLITON_ON_3-DIMENSIONAL_alpha-PARA_KENMOTSU_MANIFOLD">https://www.researchgate.net/publication/352383286_e-YAMABE_SOLITON_ON_3-DIMENSIONAL_alpha-PARA_KENMOTSU_MANIFOLD</a>
17	Dr. B. Sooryanarayana	ON THE M-POLYNOMIAL AND SOME TOPOLOGICAL	South East Asian Journal of Mathematics and		313-330	17	3	2021	<a href="http://rsmams.org/journals/articleinfo.php?art">http://rsmams.org/journals/articleinfo.php?art</a>

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		INDICES	Mathematical Sciences						icleid=641&tag=seajmams
18	Dr. B. Sooryanarayana	Magic Sigma Coloring of a Graph	Computer Science Journal of Moldova	<a href="https://www.math.md/files/csjm/v29-n2/v29-n2-(pp257-270).pdf">https://www.math.md/files/csjm/v29-n2/v29-n2-(pp257-270).pdf</a>	257-270	29	2(86)	2021	<a href="http://www.math.md/en/publications/csjm/issues/v29-n2/13344/">http://www.math.md/en/publications/csjm/issues/v29-n2/13344/</a>
19	Dr. B. Sooryanarayana	On classes of defensive alliance difference secure sets of a graph	Turkish online journal of qualitative inquiry	<a href="https://www.semanticscholar.org/paper/">https://www.semanticscholar.org/paper/</a>	7631-7637	12	6	2021	<a href="https://www.tojqi.net/">https://www.tojqi.net/</a>
20	Dr. B. Sooryanarayana	Graphs of neighborhood metric dimension two	J. Math. Fund. Sci.	<a href="https://doi.org/10.5614/j.math.fund.sci.2021.53.1.9">10.5614/j.math.fund.sci.2021.53.1.9</a>	118-133	53	1	2021	<a href="https://journals.itb.ac.id/index.php/jmfs">https://journals.itb.ac.id/index.php/jmfs</a>
21	Dr. B. Sooryanarayana	Non-neighbor topological indices of honeycomb networks	Palestine journal of mathematics	<a href="https://pjm.ppu.edu/sites/default/files/papers/PJM_Special_Issue_1_52_to_58.pdf">https://pjm.ppu.edu/sites/default/files/papers/PJM_Special_Issue_1_52_to_58.pdf</a>	52-58	10	1	2021	<a href="https://pjm.ppu.edu/paper/835-non-neighbor-topological-indices-honeycomb-networks">https://pjm.ppu.edu/paper/835-non-neighbor-topological-indices-honeycomb-networks</a>
22	Dr. B. Sooryanarayana	Neighborhood alliance in join of a graph with $K_1$	J. Math. Comput. Sci.	<a href="https://doi.org/10.28919/jmcs/5214">10.28919/jmcs/5214</a>	2624-2649	11	3	2021	<a href="https://pjm.ppu.edu/">https://pjm.ppu.edu/</a>
23	Dr. B. Sooryanarayana	Certain varieties of resolving sets of a graph	Journal of the Indonesian mathematical society	<a href="https://jims-a.org/index.php/jimsa/article/view/881">https://jims-a.org/index.php/jimsa/article/view/881</a>	103-114	27	1	2021	<a href="https://jims-a.org/index.php/jimsa">https://jims-a.org/index.php/jimsa</a>
24	Dr. B. Sooryanarayana	Zagreb alliance indices	Advances in mathematics: scientific journal		1273-1284	10	3	2021	<a href="https://research-publication.com/?page_id=10">https://research-publication.com/?page_id=10</a>



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25	Dr. B. Sooryanarayana	Certain topological indices and polynomials for the isaac graphs	Journal of discrete mathematical sciences and cryptography	10.1080/09720529.2021.1896648	511-525	24	2	2021	<a href="https://www.tandfonline.com/toc/tdmc20/current">https://www.tandfonline.com/toc/tdmc20/current</a>
26	Dr. B. Sooryanarayana	General fifth m-zagreb polynomials of the TUC4C8 (r)[p, q] 2d-lattice and its derived graphs	Letters in applied nanobioscience	<a href="https://nanobiletters.com/wp-content/uploads/2020/10/2846808101.17381747.pdf">https://nanobiletters.com/wp-content/uploads/2020/10/2846808101.17381747.pdf</a>	1738-1747	10	1	2021	<a href="https://nanobiletters.com/">https://nanobiletters.com/</a>
27	Pavithra A/ C E Nanjundappa	Effect of Dusty Particles on Darcy-Brinkman Gravity-Driven Ferro-Thermal-Convection in a Ferrofluid Saturated Porous Layer with Internal Heat Source: Influence of Boundaries	Penetrative ferro-thermal-convection via internal heating in a Ferrofluid saturated porous layer for different types of velocity, temperature theoretically.	10.1007/s40819-020-00948-6	1-20	7	21	2021	<a href="https://www.springer.com/journal">https://www.springer.com/journal</a>
28	Bhavya S/ C. E. Nanjundappa	Volumetric internal heating on Bénard-Marangoni-porous convection in a ferrofluid : Influence of MFD viscosity and thermal bounded surfaces	Investigates the effects of volumetric internal heating and MFD viscosity			26 (9)	1671-9727	2021	
29	Dr Savitha Y L	Penetrative Brinkman ferroconvection via internal heating in high	The penetrative ferrothermal convection (FTC)	10.1016/j.heliyon.2021.e06153	e06153	7	2	2021	<a href="https://www.sciencedirect.com/science/artic">https://www.sciencedirect.com/science/artic</a>

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		porosity anisotropic porous layer: influence of boundaries	in a ferrofluid (FF)								le/pii/S2405844021002589
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## Faculty Publications: 2022

Sl. No	Name of the Faculty/Name of the Guide	U S N	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vo I.N O	Issue No	Year	Link
1	Dr. C.E Nanjundappa		Effect of Surface Tension on Gravity Driven Convection in a Rotating Ferrofluid Fluid Layer Subject to Robin Thermal Boundary Condition	Fluid Mechanics- Gravity Driven Convection in a Rotating Ferrofluid Fluid Layer		1689-1702	7	2	2022	<a href="https://kalaharijournals.com/resources/192%20(2)_220429_123513.pdf">https://kalaharijournals.com/resources/192%20(2)_220429_123513.pdf</a>
2	Dr. C.E Nanjundappa		Penetrative thermo-gravitational and surface-tension driven convection in a ferrofluid layer through volumetric internal heating with variable viscosity	Fluid Mechanics-driven convection in a ferrofluid layer through volumetric internal heating with variable viscosity	10.29121/ijetmr.v9.i4.2022.1140	78-96	9	4	2022	<a href="http://10.29121/ijetmr.v9.i4.2022.1140">10.29121/ijetmr.v9.i4.2022.1140</a>
3	Dr. Jayalakshmi M / Dr. B. Sooryanarayana		Performance Analysis of ND and NHD Topological methods of Alkanes.	On topological indicis	10.33263/BRIAC131.068	online	13	1	2022	<a href="http://doi.org/10.33263/BRIAC131.068">http://doi.org/10.33263/BRIAC131.068</a>
4	Dr. Nagarathnamma H / Dr. Suma S P		Combined impact of variable viscosity and throughflow effects on the onset of convection		10.36963/IJTST.2022090303		9	3	2022	<a href="https://doi.org/10.36963/IJTST.2022090303">https://doi.org/10.36963/IJTST.2022090303</a>

		in an anisotropic porous layer							
5	Shivaprasanna G S/ Dr Prabhavati Gangadi	On weakly symmetric generalized $(k, \mu)$ -space forms	In this paper, to study weakly symmetric and weakly ricci symmetric properties.	10.17777/pjms2022.25.2.133	133-144	25	2	2022	<a href="https://jangjeonopen.or.kr/public/upload/1651453094-pjms25-2-2.pdf">https://jangjeonopen.or.kr/public/upload/1651453094-pjms25-2-2.pdf</a>
6	Shivaprasanna G S	Generalised Sasakian-Space-Form in Submanifolds	necessary and sufficient condition for an invariant submanifold of generalised sasakian space form .		69-81	3		2022	<a href="http://fs.unm.edu/IJMC/Generalised%20Sasakian-Space-Form%20in%20Submanifolds.pdf">http://fs.unm.edu/IJMC/Generalised%20Sasakian-Space-Form%20in%20Submanifolds.pdf</a>
7	Dr. B. Sooryanarayana	An Algebraic Approach to Find Some Topological Indices of Derived Graphs of the Benzene Ring	Biointerface Research in Applied Chemistry	<a href="https://doi.org/10.33263/BR-IAC124.54315443">10.33263/BR-IAC124.54315443</a>	5431-5443	12	4	2022	<a href="https://biointerfaceresearch.com/?page_id=8775">https://biointerfaceresearch.com/?page_id=8775</a>
8	Dr. B. Sooryanarayana	Topological indices of the subdivision graphs of the nanostructure TUC4C8(R) using M-polynomials	Journal of Discrete Mathematical Sciences and Cryptography	10.1080/09720529.2022.2027604	265-282	25	1	2022	<a href="https://www.tandfonline.com/toc/tmc20/current">https://www.tandfonline.com/toc/tmc20/current</a>
9	Dr. B. Sooryanarayana	REVERSE SOMBOR INDEX	BULLETIN OF THE INTERNATIONAL MATHEMATICAL VIRTUAL INSTITUTE	10.7251/BIMVI2201267S	267-272	12	2	2022	<a href="http://www.imvibl.org/bulletin.htm">http://www.imvibl.org/bulletin.htm</a>
10	Dr. B. Sooryanarayana	Resolving Topological Indices of Graphs	Iranian Journal of Mathematical Chemistry	10.22052/IJMC.2022.242888.1567	201-226	13	3	2022	<a href="https://ijmc.kashanu.ac.ir/article_112875_f97b6309c0b37b068268e2ce35cf6bc5.pdf">https://ijmc.kashanu.ac.ir/article_112875_f97b6309c0b37b068268e2ce35cf6bc5.pdf</a>

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11	Dr Savitha Y L	Exploration of energy based volumetric heating on ferrothermal porous convection: Effects of MFD viscosity and boundary conditions	The impact of energy-based volumetric internal heating and magnetic field-dependent (MFD) viscosity on the onset of ferrothermal porous convection	<a href="https://doi.org/10.1002/htj.22627">10.1002/htj.22627</a>	6856-6872	51	7	2022	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/htj.22627">https://onlinelibrary.wiley.com/doi/abs/10.1002/htj.22627</a>
12	Pavithra A/ C E Nanjundappa	Classical Linear Stability Analysis of Energy Based Internally Heated Distributions on Bénard Porous Convection in a Micropolar Fluid Layer	The theoretical and numerical analysis is carried out on the effect of three types of configurations.	10.4236/jema a.2022.14100 1	1-18	14		2022	<a href="https://www.scirp.org/journal/jemaa">https://www.scirp.org/journal/jemaa</a>
13	Bhavya S/ C. E. Nanjundappa	Energy Based Volumetric Internal Heating on Bénard-Marangoni FTC in a Ferrofluid-Porous Saturated Layer: Effects of MFD Viscosity and Thermal Bounded Surfaces	A linear stability analysis of energy based volumetric internal heating on Bénard-Marangoni ferrothermal convection (FTC) in a ferrofluid (FF) porous saturated layer		21-29	17	1	2022	<a href="http://www.ripublication.com">http://www.ripublication.com</a>
14	Dr. R. Murali	Bi-Domination in Shadow Distance graphs	Bi-Domination in Shadow Distance graphs		119-127	26	3		
15	Dr. R. Murali	Bi-Domination in brick product graphs			1954-1960	13	2	2022	<a href="https://publishoa.com/index.php/journal/article/view/376">https://publishoa.com/index.php/journal/article/view/376</a>
16	Dr. R. Murali	Topological Indices Polynomials of						2022	<a href="https://dx.doi.org/10.21123/bsj.2022">https://dx.doi.org/10.21123/bsj.2022</a>





	Name of the Guide	N			(DOI)			No		
1	Pavithra A/ C E Nanjundappa		Penetrative thermo-gravitational convection driven by surface tension in a ferrofluid layer subject to MFD viscosity via volumetric heat source	The effects of internal heat generation MFD viscosity on the onset of Bénard–Marangoni ferroconvection (BMFC)		208-213	11	1	2022	<a href="https://www.scimagojr.com › journalsearch">https://www.scimagojr.com › journalsearch</a>

## International Conference

## Faculty Publications: 2019

S l. No	Name of the Faculty/Name of the Guide	U S N	Title of the Paper	Research description	DOI	PP	Vol.N O	Issue No	Year	Link
1	Pavithra A/ C E Nanjundappa		Ferro-thermal-convection in a micropolar ferrofluid saturated porous layer and submitted to a Robin thermal boundary condition	The theoretical analysis is carried out for the problem of ferro-thermal-convection (FTC) onset in a micropolar ferrofluid-saturated porous layer submitted to a Robin type of thermal boundary condition.	10.1063/5.0030129	020028-1 TO 020028-10	2297	1	2020	<a href="https://aip.scitation.org › toc › apc › 2297">https://aip.scitation.org › toc › apc › 2297</a>

## Faculty Publications: 2020

6/2/2020  
 2020-2021  
 2020-2021  
 2020-2021

S l. No	Name of the Faculty/Name of the Guide	U S N	Title of the Paper	Research description	DOI	PP	Vol.N O	Issue No	Year	Link
1	Dr.Sunitha Kulkarni/Dr . R Murali		Star-rainbow coloring in some corona product graphs.	Graph theory- star rainbow coloring	10.1088/1742- 6596/1597/1/0120 56	01-08			2020	doi:10.1088/1 742- 6596/1597/1/ 012056
2	Dr.Shivapra sanna G S		$\eta$ -Ricci solitons in $\alpha$ - parakenmotsu manifolds	The moto of the paper is to examine " $\eta$ -Ricci solitons" in " $\alpha$ - paraKenmotsu manifolds" with second order parallel tensor.	10.1088/1742- 6596/1597/1/0120 32	012032	1597			[PDF] from iop.org
3	Dr.Shivapra sanna G S		$\eta$ -Ricci soliton on f- Kenmotsu manifolds	The objective of the paper is to study $\eta$ - Ricci soliton on an Einstein .	10.1088/1742- 6596/1543/1/0120 07	012007	1543		2020	[PDF] from iop.org Full View
4	Dr Savitha Y L		Penetrative ferro- thermal-convection in high porosity anisotropic porous layer via internal heating	The onset of penetrative Ferro- Thermal-Convection (FTC)		020008	2297	1	2020	<a href="https://ui.adsabs.harvard.edu/abs/2020AIPC.2297b0008L/abstract">https://ui.ads bs.harvard.ed u/abs/2020AI PC.2297b000 8L/abstract</a>
5	Bhavya S/ C. E. Nanjundapp a		Internally heated Darcy-Brinkman- Bénardferro-thermal- convection in a ferrofluid saturated porous layer: The	the effects of different velocity, temperature and magnetic potential boundary conditions on the linear stability criteria of three	10.1063/5.002984 0	020009 -1-13	2297		2020	10.1063/5.00 29840

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		influence of boundaries	models						
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## Faculty Publications: 2021

S l. No	Name of the Faculty/Name of the Guide	U S N	Title of the Paper	Research description	DOI	PP	Vol.NO	Issue No	Year	Link
1	Nagarathna mma H / Dr. Suma S P		Effect of Variable Heat Source on the Onset of Darcy-Brinkman Convection in an Anisotropic Porous Medium		10.1007/978-981-16-0942-8_40	417-425			2021	<a href="https://doi.org/10.1007/978-981-16-0942-8_40">https://doi.org/10.1007/978-981-16-0942-8_40</a>
2	Nagarathna mma H / Dr. Suma S P		Effects of variable heat source on convective motion in an anisotropic porous layer		10.1088/1757-899X/1070/1/012018	012018	VOL.1070		2021	<a href="https://iopscience.iop.org/article/10.1088/1757-899X/1070/1/012018/pdf">https://iopscience.iop.org/article/10.1088/1757-899X/1070/1/012018/pdf</a>
3	Dr Savitha Y L		Influence of Boundary Conditions and Temperature Dependent Viscosity on Penetrative Ferrothermal Porous Convection			1209-1213		978-1-77592-216-2	2021	
4	Dr. Sowbhagya		Effects of quadratic drag and throughflow on the onset of darcy-Bènard convection in a porous layer using a	Fluid Mechanics- Effects of quadratic drag and throughflow		2321-9009	6	2		<a href="http://www.iraj.in/journal/journal_file/journal_pdf/6-480-153448641127">http://www.iraj.in/journal/journal_file/journal_pdf/6-480-153448641127</a>

		thermal nonequilibrium model							-32.pdf
5	Bhavya S/ C. E. Nanjundappa	Effect of internal heat source on classical Bénard convection in a saturated porous layer subjected to temperature dependent viscosity with different boundaries	the effect of energy based internal heating and temperature dependent viscosity variation on the onset of Brinkman-Bénard convection (FC)		700-705		978-1-77592-216-2	2021	<a href="http://repository.up.ac.za">http://repository.up.ac.za</a>

## Faculty Publications: 2022

S l. N o	Name of the Faculty/Name of the Guide	U S N	Title of the Paper	Research description	DOI	PP	Vol.NO	Issue No	Year	Link
1	Nagarathnamma H / Dr. Suma S P		Impact of Viscosity and Heat Source Variance on the Onset Convection in a Fluid Layer		10.1007/978-981-19-1388-4_11	109-118			2022	<a href="https://doi.org/10.1007/978-981-19-1388-4_11">https://doi.org/10.1007/978-981-19-1388-4_11</a>
2	Nagarathnamma H / Dr. Suma S P		Effects of linear and nonlinear gravity variance on penetrative nanofluid convective motion		10.1016/j.matpr.2021.09.503	Pages 590-592	Vol. 54	3	2022	<a href="https://doi.org/10.1016/j.matpr.2021.09.503">https://doi.org/10.1016/j.matpr.2021.09.503</a>

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International Journals

Student Publications: 2019 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

Student Publications: 2020 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

Student Publications: 2021 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

Student Publications: 2022 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

National Journals

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Student Publications: 2019 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

Student Publications: 2020 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

Student Publications: 2021 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

Student Publications: 2022 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

International Conference

Student Publications: 2019 : Nil

Dr. Ambedkar Institute of Technology, Bengaluru-56  
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Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

Student Publications: 2020 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

Student Publications: 2021 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

Student Publications: 2022 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

National Conference

Student Publications: 2019 : Nil

Sl.No	Name of the Student/Name	USN	Title of the	Research description	Date of Introduction	PP	Vol.NO	Issue No	Year	Link

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	of the Guide		Paper	(DOI)					
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Student Publications: 2020 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

Student Publications: 2021 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

Student Publications: 2022 : Nil

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

Publication Statistics

Year	Publications		Citations	Crossreference citations	h-index	i-index	google scholar citations	books	Book chapter
	Scopus Publications	WoS publications							
2022	9	6	59	456	49	43	201	0	2
2021	22	5	81		49	43	182	0	3
2020	23	4	52		49	43	203	2	0
2019	9	2	31		49	43	158	0	0
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**Grants**

On-Going Research Project Details: 2019 : Nil

Sl No	Name of the Principal Investigator	Name of the Co-Principal Investigator	Title of the Research Project	Scheme	Name of the Funding agency	Type of the funding agency(Govt/Non-Govt	Project Sanctioned date	Total amount sanctioned in Rs	Sanctioned Order No.	Duration in Years	Link

On-Going Research Project Details: 2020 : Nil

Sl No	Name of the Principal Investigator	Name of the Co-Principal Investigator	Title of the Research Project	Scheme	Name of the Funding agency	Type of the funding agency(Govt/Non-Govt	Project Sanctioned date	Total amount sanctioned in Rs	Sanctioned Order No.	Duration in Years	Link

On-Going Research Project Details: 2021 : Nil

Sl No	Name of the Principal Investigator	Name of the Co-Principal Investigator	Title of the Research Project	Scheme	Name of the Funding agency	Type of the funding agency(Govt/Non-Govt	Project Sanctioned date	Total amount sanctioned in Rs	Sanctioned Order No.	Duration in Years	Link

On-Going Research Project Details: 2022 : Nil

Sl No	Name of the Principal Investigator	Name of the Co-Principal Investigator	Title of the Research Project	Scheme	Name of the Funding agency	Type of the funding agency(Govt/Non-Govt	Project Sanctioned date	Total amount sanctioned in Rs	Sanctioned Order No.	Duration in Years	Link

Completed Research Project Details: 2019 : Nil

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Industry collaborations

Industry collaborations: 2019 : Nil

Sl.No	Name of the Industry with complete Address, Email ID, Phone No	Description of the collaboration/Activities taken	Year	Link

Industry collaborations: 2020 : Nil

Sl.No	Name of the Industry with complete Address, Email ID, Phone No	Description of the collaboration/Activities taken	Year	Link

Industry collaborations: 2021 : Nil

Sl.No	Name of the Industry with complete Address, Email ID, Phone No	Description of the collaboration/Activities taken	Year	Link

Industry collaborations: 2022 : Nil

Sl.No	Name of the Industry with complete Address, Email ID, Phone No	Description of the collaboration/Activities taken	Year	Link

List of Industry Advisory Board : Nil  
Description of activities so far: Nil

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MOUs

MOUs: 2019 : Nil

Sl.No	Name of the Industry/Research organization with complete Address, Email ID, Phone No	Description of the MoUs/Activities taken	MoU signed date	Valid till	Term	Link

MOUs: 2020 : Nil

Sl.No	Name of the Industry/Research organization with complete Address, Email ID, Phone No	Description of the MoUs/Activities taken	MoU signed date	Valid till	Term	Link

MOUs: 2021 : Nil

Sl.No	Name of the Industry/Research organization with complete Address, Email ID, Phone No	Description of the MoUs/Activities taken	MoU signed date	Valid till	Term	Link

MOUs: 2022 : Nil

Sl.No	Name of the Industry/Research organization with complete Address, Email ID, Phone No	Description of the MoUs/Activities taken	MoU signed date	Valid till	Term	Link

Description of activities so far conducted: Nil



  
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Quarterly plan to realize annual Target(Calender Year 2023)

#	Major/Minor Activity	Mathematics												Total
		Target: Quarter-1			Target: Quarter-2			Target: Quarter-3			Target: Quarter-4			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	R & D Awareness Program(Publication, Patent,Funding)-Internal Experts	2	2	2	2	2	2	2	2	2	2	2	2	24
2	R & D Awareness Program(Publication, Patent,Funding)-External Experts	0	0	1	1	0	1	0	0	1	1	0	1	6
3	Research Publications Indexed in Scopus / WoS / SCIE - as 1st Author(01 per Faculty per Sem including Student Project)	2	3	3	2	3	2	2	3	2	3	2	3	30
4	Patents - Published (01 per PhD Faculty Per Year)	0	0	0										0
5	Patents - Published (01 per PhD Faculty Per Year)			0			0			0		0	0	0
6	Research Grants - Applied (01 per PhD Faculty Per Year)	1	1	1	1	1	1	1	1	1	1	1	1	12
7	Research Grants - Granted (01 per Department Per Year)			1			2			2			0	5
8	Consultancy (Rs.10,000/- or more) - For Each Department			0			0			0	0		0	0
9	MOUs / IIC Labs (01 Per Department Per Year)			0			0			0			0	0
10	Student Projects (Financial Support From KSCST / VTU etc)				0								0	0
11	FDPs on Research, Consultancy, Patents and related activities(FDP - 04Nos ATAL FDP / IIT / IIM / NITs per year)	1	1	1	1	1	1	1	1	1	1	1	1	12
12	Organizing Student - R&D Events (For Dr AIT)						0						0	0
13	Visit to Industry and Research Organizations(IISc /IIT / IIM / NIT / NIRF Top 25 Govt Institutes / R&D Labs) by Dr AIT R&D Department Members	0	0	0	0	0	0	0	0	0	0	0	0	0

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