



MAHARAJA BIR BIKRAM UNIVERSITY
AGARTALA, TRIPURA

- Name of the Faculty:** Dr. Runu Dhar
- Designation:** Associate Professor
- Date of Joining:** 13/04/2017
- Address for Communication:** Department of Mathematics, MBB University, College Tilla, P.O. Agartala College, Agartala, Tripura, Pin Code: 799004, India.
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- Email Id:** runu.dhar@gmail.com, rdhar.mbbu@mbbuniversity.ac.in
- Area of Specialization:** Elasticity, Differential Geometry
- Research Area:** Fuzzy Topology, Neutrosophic Topology, Optimization.
- Courses Taught:** Abstract Algebra, Real Analysis and Measure Theory, Functional Analysis, Topology, Integral Transforms, Operations Research.
- PhD Guidance**

Sl. No.	NAME OF THE SCHOLAR	Ph.D. Registration No. with date	Title of the Ph.D. Thesis	Present Status
1	GOUR PAL	MBBU/Ph.D/2021 /PMA001/0001, Dated, March 15, 2021	A Study on Minimal Structures in Neutrosophic Topological Spaces	Pre-submission of public seminar has already been completed.
2	ABHISHEK CHAKRABORTY	MBBU/Ph.D/2021 /PMA001/0002, Dated, July 12, 2021	A Study on Two Person Zero Sum Game in Neutrosophic Environment	On Progress
3	ARGHYADIP DEBROY	MBBU/Ph.D/2022 /PMA001/0001, Dated, April 28, 2022	Study on Some Classes of Sequences of Neutrosophic Real Numbers	On Progress

4	DEEPAJ DAS	MBBU/Ph.D/2022 /PMA001/0002, Dated, April 28, 2022	A Study on Neutrosophic Fuzzy Matrices and Their Properties	On Progress
5	AMARESH DEBNATH	The Board of Post Graduate Studies (BPGS) approved the Ph.D. Synopsis of AMARESH DEBNATH on 08/12/2023. As per Ph.D. Regulations, the date of Ph.D. Registration of him will be 08/12/2023	Studies on Some Sequence Spaces of Multiset Real Numbers	On Progress

□ **Publication Details:**

• **Journal Publications (International):**

Name of the Journal	Name of the Paper	Authors Name, Issue No., Volume No., page No.
Advances and Applications in Mathematical Sciences	Separation axioms in neutrosophic fuzzy supra topological spaces	R. Dhar , V: 22(12), pp.: 2255-2267
Neutrosophic Sets and Systems	Properties of multiplication operation of neutrosophic fuzzy matrices	D. Das, R. Dhar and B. C. Tripathy, V: 61, pp.: 134 - 148
Proyecciones Journal of Mathematics	Fuzzy S_{β} - compactness and fuzzy S_{β} - closed spaces	R. Dhar , V: 42(6), pp.: 1583 - 1596
Electronic Journal of Mathematical Analysis and Applications	Some neutrosophic compact spaces via grills	R. Dhar , S. Paul, S. Paul and G. Pal, V; 11(1), pp.: 231 - 240
Neutrosophic Systems with Applications	Compactness and neutrosophic topological space via grills,	R. Dhar , V: 2, pp.: 1 - 7
Proyecciones Journal of Mathematics	Fuzzy S_{β} - continuous and fuzzy S_{β} - open mappings	R. Dhar , V: 41(4), pp.: 891 - 902
Neutrosophic Sets and Systems	Continuity in minimal structures in neutrosophic topological spaces	G. Pal, B. C. Tripathy and R. Dhar , V; 51, pp.: 360 - 370
Neutrosophic Sets and Systems	Minimal structures and grill in neutrosophic topological spaces	G. Pal, R. Dhar and B. C. Tripathy, V; 51, pp.: 134 - 145
Acta Ciencia Indica	New forms of some neutrosophic compact spaces via grills	R. Dhar , S. Paul and S. Paul, V: XLVIII-M, No. 1-4, pp.: 17 - 26
Proyecciones Journal of Mathematics	Continuity in fuzzy bitopological ordered spaces	R. Dhar , V; 40(3), pp.: 681 - 696

Proyecciones Journal of Mathematics	Some pairwise weakly fuzzy mappings	R. Dhar , V; 38(4), pp.: 707 - 717
International Journal of Engineering Science Invention	Some results on fuzzy δ - semi precompactness	R. Dhar , V: 7, pp.: 7 - 10
IOSR Journal of Mathematics	Some results on fuzzy δ - semi precontinuous mappings	R. Dhar , V: 14, pp.: 42 - 46
International Journal of Mathematics Trends and Technology	On δ – lower semi precontinuous functions	R. Dhar , V-47, pp.: 36 - 39
CiiT International Journal of Fuzzy Systems	Results on fuzzy δ – semi pre-separated sets and fuzzy semi δ – pre-separation axioms	R. Dhar , V- 9(8), pp.: 154 - 159

- International Conference:

Name of the Conference	Name of the Paper	Authors Name, Issue No., Volume No., page No.
International Conference on Cybernetics, Cognition and Machine Learning Applications	Queuing Theory and Optimization in Banking Models	Authors: R. Dhar, A. Chakraborty and J. Sarkar , Proceedings name: Cybernetics, Cognition and Machine Learning Applications, pp: 131-140, Publisher: Springer

- Journal Publications (National):

Name of the Journal	Name of the Paper	Authors Name, Issue No., Volume No., page No.
Journal of Tripura Mathematical Society	Some δ -open sets in intuitionistic fuzzy setting	R. Dhar , V; 22, pp: 81-88
Journal of Tripura Mathematical Society	Compactness in neutrosophic minimal spaces	G. Pal and R. Dhar , V: 22, pp: 68 - 74
Adhyayan	Optimization of (M/M/s) model: A case study to restaurant queuing system	R. Dhar , V: 1(1), pp: 32-44,

- Books Published/ Edited

Name of the Book	Name of the Publisher	ISSN/ ISBN	Year of Publication	Authors Name, Issue No., Volume No., page
New Researches in Science Humanities and Social Sciences	Eastern Book House Publishers	978 93 92038 14 3	2022	D. Adak and R. Dhar

New Thoughts on Ancient and Modern Mathematics	Eastern Book House Publishers	978-81-8194747-54-3 (Print Book), 978-81-8194747-55-0 (e-Book).	2021	R. Dhar and D. Adak
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- **Book Chapter Published**

Name of the Book	Name of the Book Chapters	Name of the Publisher	ISSN/ ISBN	Year of Publication	Authors Name, Issue No., Volume
New Researches in Science Humanities and Social Sciences	Optimality of Two Person Games Under Fuzzy Fields	Eastern Book House Publishers	978 93 92038 14 3	2022	R. Dhar and A. Chakraborty
New Researches in Science Humanities and Social Sciences	Screening of Human Body Temperature and Infrared Imaging - A Review	Eastern Book House Publishers	978 93 92038 14 3	2022	D. H. Das and R. Dhar
New Researches in Science Humanities and Social Sciences	Queuing Theory : A Case Study to Grocery Market	Eastern Book House Publishers	978 93 92038 14 3	2022	R. Dhar and D. Dey
New Researches in Science Humanities and Social Sciences	Queuing Theory : A Case Study to Electrical Office	Eastern Book House Publishers	978 93 92038 14 3	2022	R. Dhar and K. Dey
New Thoughts on Ancient and Modern Mathematics	Intuitionistic Fuzzy Alpha Generalized Semi Preclosed Sets and Intuitionistic Fuzzy Alpha Generalized Semi	Eastern Book House Publishers	978-81-8194747-54-3 (Print Book), 978-81-8194747-55-0 (e-Book).	2021	R. Dhar
New Thoughts on Ancient and Modern Mathematics	Queuing Theory in Day to Management to Health Center	Eastern Book House Publishers	978-81-8194747-54-3 (Print Book), 978-81-8194747-55-0 (e-Book).	2021	R. Dhar and A. Chakraborty
New Thoughts on Ancient and Modern Mathematics	Fuzzy Game Problem	Eastern Book House Publishers	978-81-8194747-54-3 (Print Book), 978-81-8194747-55-0 (e-Book).	2021	R. Dhar and S. Debnath

Cybernetics, Cognition and Machine Learning Applications	Queuing Theory and Optimization in Banking Models	Springer	978-981-15-1631-3	2019	R. Dhar, A. Chakraborty and J. Sarkar
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□ **Project Details:**

- 1) **Principal Investigator** of a **Minor Project** titled “*Impacts of Social Awareness and Governmental Regulations to Mitigate the Challenge of Plastic Pollution with a Special Reference to Tripura*” funded by MBB University has been completed and report have been submitted.

• **Student Project Supervised**

Year	Name of the Student	Roll No.	Project Title	Supervisor
2019	ABHISHEK CHAKRABORTY	410	Queuing Theory and Its Applications in Real Life Problem	Dr. Runu Dhar, Associate Professor, Department of Mathematics, MBB University
	JHUTAN SARKAR	404		
	DIPTANU SARKAR	425		
	SANKHAMITA DAS BAISHNAB	418	An Overview to Solve Travelling Salesman Problem	
	BISWAJIT DAS BAISHNAB	427		
	SOURAJIT BHOWMIK	416		
	SANJOY DEBNATH	413	Some Ways of Solving Fuzzy Game Problems and Their Applications	
	SAMAR DEBNATH	412		
	AJOY DAS	403		
2020	RIYA BAL	18411023	Game Theory and Fuzzy Environment	Dr. Runu Dhar, Associate Professor, Department of Mathematics, MBB University
	RAJESH SHIL	18411019		
	AKASH SARKAR	18411005		
	SUBHRAJIT ACHARJEE	17411001	A Study on Different Types of Topology	
	DEBAJYOTI GOSWAMI	18411002		
	SUBANKAR CHAKRABORTY	18411001		
	BASAB KARMAKAR	18411012		

2021	JAYASHREE DEBNATH	19411009	An Overview on Travelling Salesman Problem	Dr. Runu Dhar, Associate Professor, Department of Mathematics, MBB University
	PRIYANKA BISWAS	19411008		
	KARISHMA PAL	19411005	A Study on Particle Swarm Optimization	
	BARNALI PAL	19411007		
	DIPANIKA DEY	19411015		
	AMIT SINHA	19411017	A study on the Symbiotic Organism Search Algorithm	
	BISWAJIT DEBNATH	19411012		
	SUBRATA GHOSH	19411004		
2022	AKASH DAS	2004MAM0010007	A Review of Fuzzy Set Theory	Dr. Runu Dhar, Associate Professor, Department of Mathematics, MBB University
	AKASH SAHA	2004MAM0010016		
	PRASENJIT DAS	2004MAM0010031		
	AMIT SEN	2004MAM0010018		
	PARTHA DEBNATH	2004MAM0010004	A Study on Some Class of Sequence Spaces	
	SUMA PAUL	2004MAM0010017		
	UDAY DAS	2004MAM0010011		
	NIKITA DAS	2004MAM0010034		
	PRITAM DAS	2004MAM0010023	Case Study to the Applications of Queuing Theory	
	MINAKSHI PAUL	2004MAM0010035		
	SHUBHAJIT DAS	2004MAM0010008		
	SAMIN MIAH	2004MAM0010001		
	JAYANTA NATH	2004MAM0010012	A Review on Multiset and Multiset Topology	
	ANKITA PAUL	2004MAM0010028		
	SUPRIYA PAUL	2004MAM0010027		
	JOYDIP CHOWDHURY	2004MAM0010019		
2023	APARAJITA MAJUMDER	2104MMA0010008	Queuing Theory and Its Applications	Dr. Runu Dhar, Associate Professor, Department of
	ANNDITA BRAHMA	2104MMA0010019		
	URMIE DAS	2104MMA0010020		

	BISHAL SHIL	2104MMA0010002	A Review of Neutrosophic Set Theory and Its Applications	Mathematics, MBB University
	AJOY DAS	2104MMA0010004		
	BISWAJIT SARKAR	2104MMA0010012		
	SUSMITA DEBNATH	2104MMA0010006	Game Theory and Fuzzy Environment	
	DIPANJALI PAUL	2104MMA0010036		
	SNEHA DEY	2104MMA0010001		
	TANU SARKAR	2104MMA0010011	A Review of Intuitionistic Fuzzy Set and Its Applications	
	SATYAJIT DAS	2104MMA0010018		
	CHINMOY BARDHAN	2104MMA0010025		

Details about Participation in Orientation Programme/Refresher Course/FDP/Seminar/Conference/Webinar/Lectures etc:

Sl. No	Name of the Programme	Date	Organized by
3	Two weeks online Refresher Course in Mathematics (Obtained Grade: A)	12/09/2022 – 24/09/2022	UGC-Human Resource Development Centre, University of Hyderabad
6	One Day International Webinar on COVID-19: Issues and Challenges on Economy, Politics and Society	29/05/2020	MBB University
12	National Seminar on Environmental Administration: Concepts, Issues and Challenges	08/03/2018 and 10/03/2018	MBB University

Details about Paper Presentation/Invited Lecture in Conference/Seminars/Symposiums:

Sl. No.	Title of the Paper	Seminar/Conference etc.	Organised by	Date
1	Impact of New Education Policy 2020 on curriculum and course structure of Higher Education	Framing Course Curriculum under National Education Policy (NEP) – 2020 : Challenges and Role of Teachers	MBB University	December 13, 2021
2	Queuing Theory and Optimization in Banking Models	International Conference on Cybernetics Cognition & Machine Learning Applications – ICCMLA	Goa, India	August 16-17, 2019

Seminar/Conference/Workshop/Student program etc. organized:

1. **Activity Coordinator** of the **Speech Competition** on “*Mathematics for Everyone*” to celebrate the National Mathematics Day 2023 on **December 22, 2023**.
2. **Activity Coordinator** of the program *Implementation of NEP 2020 & A Survey of Higher Education in Tripura*, organized by Internal Quality Assurance Cell, MBB University, on **October 11, 2023**.
3. **Activity Coordinator** of the program *Prevention of Depression and Suicide among Students*, organized by Internal Quality Assurance Cell, MBB University, on **August 28, 2023**.
4. **Activity Coordinator** of the program *Present and Future Prospectus of Trade and Commerce with Bangladesh through Tripura*, organized by Internal Quality Assurance Cell, MBB University, on **August 25, 2023**.
5. **Convener** of the **National Seminar** on “*Issues and Challenges in Investing in Our Planet*”, a Poster Competition on the topic “*Invest in Our Planet*”, a Rally to generate mass awareness about the Environmental Sensitivity and a Tree Plantation Ceremony in the MBB University Campus on **July 06, 2023**.
6. **Convener** of **One Day National Seminar** on *Mathematics and Its Applications (NSMA - 2023)* organized by Department of Mathematics, MBB University on **January 07, 2023**.
7. **Activity Coordinator** of the **Speech Competition** on “*Nobel Prize / Fields Medal Awarded Researches / Activities*” to celebrate the National Mathematics Day 2022 on **December 22, 2022**.
8. **Activity Coordinator** of **Popular Lecture** by *Prof. Dilip Kumar Dey, Honorable Vice-Chancellor, Bhabha University, Bhopal* organized by the Department of Mathematics, MBB University on **September 29, 2022**.
9. **Organizing Secretary** of the programme titled “*A Student Centric Programme on Preservation & Protection of Natural Resources and Marginalized Groups of India*” organized by the Department of Mathematics, MBB University and sponsored by the Ministry of Earth Sciences, Government of India during **August 30 – 31, 2022**.
10. **Activity Coordinator** of the **Awareness Programme on Cyber Crime** organized by the Internal Quality Assurance Cell (IQAC), MBB University in collaboration with Tripura Government Law College on **April 12, 2022**.
11. **Convener** of National Seminar on **Mathematics and Its Applications on Real World Problems** organized to observe the National Mathematics Day 2021, on December 22, 2021.
12. **Organizing Secretary** in National Webinar on Recent Advances in Mathematical Sciences (NWRAMS 2021), Organized by Department of Mathematics, Maharaja Bir Bikram University, **September 29-30, 2021**.
13. **Organizing Secretary** in One Day National Webinar on Yoga: A Sanatan Way of Life, Organized by Yoga and Meditation Centre, IQAC and NSS Unit of MBB University, **September 23, 2021**.
14. **Convener** in One Day National Webinar on Science and Our Earth, organized by Science Club, IQAC and Quiz Club of MBB University, **September 16, 2021**.
15. **Organizing Secretary** in Webinar on Career Counselling and Guidance, Organized by MBB University, **August 23, 2021**.
16. **Organized** of the *National Webinar on Entrepreneurship in North East India : Opportunity and Challenges*, organized by Internal Quality Assurance Cell, MBB University, on **July 20, 2021**
17. **Organized** of the National Webinar on “*Judicial Activism and Indian Democracy*”, organized by Internal Quality Assurance Cell, MBB University, on **June 10, 2021**
18. **Organized** of the National Webinar on Media and Public Health System in India, organized by Internal Quality Assurance Cell, MBB University, on **May 25, 2021**
19. **Convener** of Two-Day *International Web Conference on Advance Research in Science, Humanities and Social Science (IWCARSHSS 2020)*, Organized by Department of Mathematics, Maharaja Bir Bikram University, **July 09-10, 2020**.
20. **Convener** of Five Days National Workshop on Computational Mathematics and its Applications (NWCMA 2019), Organized by Department of Mathematics, Maharaja Bir Bikram University, **September 12-16, 2019**.
21. **Organizing Secretary** of National Conference on Ancient and Modern Mathematics (NCAMM 2019), Organized by Department of Mathematics, Maharaja Bir Bikram University, Funded by DST-SERB, **February 23-24, 2019**.

22. **Organizing Secretary** in International Conference on Recent Trends in Mathematical Sciences (**ICRTMS 2018**), Organized by Department of Mathematics, Maharaja Bir Bikram University in collaboration with Tripura Mathematical Society, **March 24-25, 2018**.
23. Organized 13 Departmental Seminars as “**Organizing Secretary**” in the Department of Mathematics, MBB University.

□ **Involvement Beyond Academic Activities**

1. Discharging the duties of **Coordinator, Internal Quality Assurance Cell (IQAC), MBB University** as an additional duty.
2. Discharging the duties of **Drawing and Disbursing Officer (DDO), MBB University** as an additional duty.
3. Discharging the duties of **State Public Information Officer (SPIO), MBB University** as an additional duty.
4. Discharging the duties of **Head of the Department, Department of Mathematics, MBB University**.
5. Discharging the duties of **Nodal Officer of National Scholarship Portal (NSP), MBB University** as an additional duty.
6. Discharging the duties of **Nodal Officer of All India Survey for Higher Education (AISHE), MBB University** as an additional duty.
7. Discharging the duties of Nodal Officer of **Undertaking Transformative Strategies and Actions in Higher Education (UTSAH), MBB University** as an additional duty.
8. Discharging the duties of Convener of Purchase Committee, **MBB University** as an additional duty.
9. Discharging the duties of Coordinator of Science Club, **MBB University** as an additional duty.
10. Discharging the duties of Innovation Club, **MBB University** as an additional duty.