

# CURRICULUM VITAE

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## Dr. Dhiren Kumar Basnet

Professor

Department of Mathematical Sciences

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## Current Research:

- Clean and Nil clean rings, Commutativity degree of finite rings, Primitive elements of finite fields.

## Positions:

- **Professor**
  - **Institute:** Tezpur University, Assam, India
  - **Joining:** 22<sup>nd</sup> March 2017
- **Associate Professor**
  - **Institute:** Tezpur University, Assam, India
  - **Tenure:** 5<sup>th</sup> August 2011 - 21<sup>st</sup> March 2017
- **Senior Lecturer**
  - **Institute:** D.H.S.K. College, Dibrugarh, Assam
  - **Tenure:** 2<sup>nd</sup> August 2011 - 4<sup>th</sup> August 2011
- **Reader (On lien)**
  - **Institute:** Assam University, Silchar, Assam
  - **Tenure:** 3<sup>rd</sup> August 2009 - 1<sup>st</sup> August 2011
- **Senior Lecturer**
  - **Institute:** D.H.S.K. College, Dibrugarh, Assam
  - **Tenure:** 9<sup>th</sup> September 2006 - 2<sup>nd</sup> August 2009
- **Lecturer**
  - **Institute:** D.H.S.K. College, Dibrugarh, Assam
  - **Tenure:** 9<sup>th</sup> September 1998 - 8<sup>th</sup> September 2006

## Educational Qualifications:

- **Doctor of Philosophy (Ph.D.) Mathematics, 2005**
  - **Institute:** Dibrugarh University, Dibrugarh, Assam, India.
- **Master of Sciences (M.Sc.) Mathematics, 1997**

- Rank - 1
- Gauhati University, Guwahati, Assam, India.
- **Bachelor of Sciences (B.Sc.) Mathematics, 1994**
  - Rank - 5 in Gauhati University.
  - Goalpara College (Under Gauhati University), Goalpara, Assam India.
- **Higher Secondary, Science, 1991**
  - Goalpara College, Goalpara, Assam India.
- **Matriculation, 1989**
  - Baladmari High School, Goalpara, Assam India.

### Publications (Journals):

- *Pair of Primitive Normal Elements of Rational Form Over Finite Fields of Characteristic 2*, **Indian Journal of Pure and Applied Mathematics**, 2022, <https://doi.org/10.1007/s13226-022-00231-y> (with H.Hazarika).
- *On the existence of primitive normal elements of rational form over finite fields of even characteristic* **International Journal of Algebra and Computation**, 2022, DOI: 10.1142/S0218196722500187 (With Himangshu Hazarika and Giorgos Kapetanakis).
- *On existence of primitive normal elements of cubic form over finite fields* **Algebra Colloquium**, 29 : 1 (2022) 151-166, DOI: 10.1142/S1005386722000128 (with H.Hazarika).
- *Nilpotent Graph* **Theory and Applications of Graphs**, Vol. 8 : Iss. 1 , Article 2 (2021) DOI: 10.20429/tag.2021.080102 (with Ajay Sharma and Rahul Dutta).
- *Nil clean divisor graph* **Transactions of National Academy of Sciences of Azerbaijan. Series of Physical-Technical and Mathematical Sciences, Issue Mathematics**, , 41 (1), 146-153 (2021) (with Ajay Sharma)
- *Characterizing some rings of finite order* **Tamkang Journal of Mathematics**, 53(2021). <https://doi.org/10.5556/j.tkjm.53.2022.3370> (with J. Dutta and R. K. Nath)
- *The existence of primitive normal elements of quadratic forms over finite fields* **Journal of Algebra and Its Application**,(2020) <https://doi.org/10.1142/S0219498822500682>, (with H.Hazarika and S.D. Cohen) .
- *Nil Clean Ideal*, **Annali dell'Universit di Ferrara** (2019) <https://doi.org/10.1007/s11565-019-00327-0> (with Ajay Sharma)
- *Weak Nil Clean Ideal*, **Rendiconti del Circolo Matematico di Palermo Series 2** (2019) DOI: 10.1007/s12215-019-00426-z (with Ajay Sharma)
- *Weak clean index of a ring*, **Beiträge Zur Algebra und Geometrie** (2019). <https://doi.org/10.1007/s13366-019-00439-w> (with J. Bhattacharyya)
- *Weakly r-clean rings and weakly \*-clean rings*, **Scientific Annals of the Alexandru Ioan Cuza University of Iasi (NS). Mathematics** Tomul LXV, 2019, f. 2, 227 - 239 (with Ajay Sharma)
- *Some bounds for commuting probability of finite rings*, **Proceedings-Mathematical Sciences** (2019) 129:1, DOI: 10.1007/s12044-018-0448-6 (with Jutirekha Dutta)

- *A note on  $n$ -centralizer finite rings*, **Analele Stiintifice Ale Universitatii Al I Cuza Din Iasi-Serie Noua-Matematica** Tomul LXIV, 2018, f. 1, 161-171 (with Jutirekha Dutta and R. K. Nath)
- *On generalized non-commuting graph of a finite ring*, **Algebra Colloquium** 25 : 1 (2018) 149-160, DOI: 10.1142/S100538671800010X, (with Jutirekha Dutta and R. K. Nath)
- *Nil clean graphs of rings*, **Algebra Colloquium**, 24 : 3 (2017) 481-492, DOI: 10.1142/S1005386717000311(with J. Bhattacharyya)
- *On commuting probability of finite rings*, **Indagationes Mathematicae**, 28 (2), 372-382, 2017, DOI : 10.1016/j.indag.2016.10.002, (with Jutirekha Dutta and R. K. Nath)
- *Nil clean index of rings*, **International Electronic Journal of Algebra** 15 (2014) 145 -156 (with J. Bhattacharyya).
- $(\epsilon, \epsilon \vee q)$ -Fuzzy Ideals of BG-algebra, **International Journal of Algebra**, Vol.5, 2011, no. 15, 703 -708. (With L. B. Singh)
- *A note on Intuitionistic Fuzzy Equivalence Relation*, **International Mathematical Forum**, Vol. 5, 2010, no. 67, 3301 -3307. (With N. K. Sarma).
- $(\alpha, \beta)$ -cut of Intuitionistic Fuzzy Ideals, **International Journal of Algebra**, Vol. 4, 2010, no. 27, 1329 - 1334.
- *Intuitionistic Fuzzy Ideals*, **Journal of Fuzzy Mathematics**, Vol. 15, No. 4, 2007, 811 -819.
- *Intuitionistic Fuzzy Projective and Injective submodule*, **Journal of Fuzzy Mathematics**, Vol. 15, No. 4, 2007 , 821 -828.
- *Intuitionistic Fuzzy Subrings and Ideals*, **Journal of Fuzzy Mathematics**, Vol. 11, No. 1, 2003, 139 -155. (With B. Banerjee).
- *Intuitionistic fuzzy divisible and pure submodule*, **Advances in Fuzzy Mathematics** , 12 (1), 77-91, 2017 (with Devanjan Hazarika)

#### Submitted:

- *Weakly I-Clean rings* (with Ajay Sharma)  
(arXiv preprint arXiv:1909.12039 )
- *On existence of primitive normal elements over finite fields* (With Himangshu Hazarika)
- *Sufficient condition for existence of special type of primitive normal elements over finite fields* (With Himangshu Hazarika)  
(arXiv preprint arXiv:1902.04736 )
- *Commuting probabilities of  $n$ -centralizer finite rings*(with Jutirekha Dutta and R. K. Nath)  
(arXiv preprint arXiv :1803.04111)
- *Weakly nil clean graphs of rings* (with Ajay Sharma and J. Bhattacharyya)  
(arXiv preprint arXiv:1705.07677)
- *Weakly clean ideal* (with Ajay Sharma)  
(arXiv preprint arXiv:1704.08814 )
- *On non-commuting graph of a finite ring* (with Jutirekha Dutta)  
(arXiv preprint arXiv:1703.05039 )
- *Formal triangular matrix ring with nil clean index 4* (with J. Bhattacharyya)

(arXiv preprint arXiv:1702.02298)

### Preprint:

- *Weak Nil Clean Rings* (with J. Bhattacharyya)  
(arXiv preprint arXiv:1510.07440).

### Publications (Proceedings):

- *Relative non-commuting graph of a finite ring*, **Proceedings of 50th symposium on ring theory and representation theory, Japan, 7<sup>th</sup> – 10<sup>th</sup> October, 2017, University of Yamanashi, Japan** p 40-46 (With Jutirekha Dutta).
- *More on Intuitionistic fuzzy ideals with thresholds  $(\alpha, \beta)$  of rings*, **Proceedings of International Workshop on Fuzzy Sets, Rough Sets, Uncertainty Analysis and Applications, 21<sup>st</sup> – 25<sup>th</sup> November, 2011, organized jointly by ISI Kolkata and dept. of Mathematics, NIT Durgapur, West Bengal** (With L. B. Singh).
- *Fuzzy Superfluous Submodule*, **Proceeding of The 6<sup>th</sup> IMT GT International conference on Mathematics, Statistics and its applications (ICMSA 2010), 3 - 4 November, 2010, Kuala Lumpur, Malaysia**, 330 - 335.(With N.K. Sarma and L.B. Singh)
- *IFM of IF Goldie Dimension*, **Proceedings of the Annual Conference of KMA and National Seminar on Fuzzy Mathematics and Applications, Kerala, India, 2004**, 131 - 143.
- *Intuitionistic Fuzzy Essential Submodules*, **Proceedings of the International Symposium on Mathematics and its Application 2002 (Dept. of pure Mathematics, University of Calcutta, Kolkata)**, 113 - 124.

### Book Published:

- *Topics in Intuitionistic Fuzzy Algebra*, **LAP Lambert Academic Publishing Germany**, 2011, ISBN - 3844391479.

### Research Scholars

#### At Tezpur University:

- **Dr. Jayanta Bhattacharyya** (A STUDY OF CLEAN AND NIL CLEAN PROPERTIES OF RINGS), Degree awarded by Tezpur University on 16<sup>th</sup> March, 2018.  
*Current Position* : Assistant Professor, Joya Gogoi College, Golaghat, Assam.
- **Dr. Jutirekha Dutta** (COMMUTATIVITY DEGREE OF FINITE RINGS), Degree awarded by Tezpur University on 5<sup>th</sup> September, 2018.  
*Current Position* : Assistant Professor(Contractual), Department of Applied Sciences, Tezpur University, Assam.
- **Dr. Ajay Sharma** (CERTAIN CLASSES OF CLEAN RINGS), Degree awarded by Tezpur University on 8<sup>th</sup> September 2020.  
*Current Position* : Assistant Professor, Sadiya College, Sadiya, Assam.
- **Mr. Himangshu Hazarika** (A STUDY OF SOME SPECIAL TYPES OF PRIMITIVE

ELEMENTS OF FINITE FIELDS), ongoing at Tezpur University.

*Current Position* : Assistant Professor, Biswanath College, Biswanath Chariali, Assam.

- **Mr. Apolo Chutia** (Ongoing)
- **Mr. Arpan Chanchal Mazumdar** (Ongoing)
- **Mr. Subir Dey** (Ongoing)

#### At Assam University:

- **Dr. L. B. Singh** (A STUDY OF RINGS, MODULES AND DIFFERENT KINDS OF ALGEBRAS IN FUZZY SETTINGS), Degree awarded by Assam University Silchar on 22<sup>th</sup> September 2014.  
*Current Position* : Assistant Professor, Manipur College, Imphal.
- **Dr. Saidur Rahman Barbhuiya** (A STUDY OF ABSTRACT ALGEBRAS IN FUZZY SETTINGS), Degree awarded by Assam University Silchar on 3<sup>rd</sup> September 2016.  
*Current Position* : Associate Professor and Head , Department of Mathematics, Srikishan Sarda College Hailakandi, Assam, India.
- **Dr. Devanjan Hazarika** (ON FUZZY ALGEBRAIC STRUCTURES), Degree awarded by Assam University Silchar on 14<sup>th</sup> December 2017.  
*Current Position* : Associate Professor, Department of Mathematics, D.H.S.K. College Dibrugarh, Assam, India
- **Dr. Ananta Kumar Dutta** (A STUDY ON SOME TOPIC ON FUZZY ALGEBRAIC STRUCTURE), Degree awarded by Assam University Silchar on 12<sup>th</sup> October 2018.  
*Current Position* : Associate Professor and Head , Department of Mathematics, D.H.S.K. College Dibrugarh, Assam, India

#### **Invited Talk / Resource Person**

##### **2022**

- Delivered an invited talk on 'Real Analysis' at the Department of Mathematics, USTM, Meghalaya, on 22 January 2022.
- Resource Person / Academic coordinator in the OFCM(Online Foundation Course in Mathematics) follow up camp 2022 on Real Analysis, organised by MTTTS Trust, Hyderabad, 9-21 January, 2022
- Resource person in the "Students Enrichment Programme" and delivered a lecture on "Understanding Mathematics" for the M.Sc. students of Manipur University, jointly organized by Department of Mathematics, Manipur University and the Department of Mathematical Sciences, Tezpur University, held at Department of Mathematical Sciences, Tezpur University, on 4th January 2022.

##### **2021**

- Delivered an Invited Talk(Webinar) on 'Introduction to Finite Fields' organised by USTM, Meghalaya, December 8, 2021.

- Deilvered a talk(Webinar) “On primitive and normal elements of finite fields” as Invited Speaker in the “International Webinar on Foundations for Contemporary Mathematical Research”, organised by Manipur University, November 8 - 10, 2021.
- Deilvered an Invited Talk(Webinar) on 'LEARNING MATHEMATICS' organised by Tyagbir Hem Baruah College, Jamugurihat, Sonitpur, Assam, on 20 July 2021.
- Resource person in MTTS Level O (held online) during 12 June - 04 July, 2021, organized by the MTTS Trust and funded by the National Board for Higher Mathematics, DAE, India.

## 2020

- Resource person in Online Foundation Course in Mathematics (OFCM-2020) held during 04 - 24 October, 2020, organized by the MTTS Trust and funded by the National Board for Higher Mathematics, DAE, India.
- Delivered an Invited Talk(Webinar) organised by IQAC, Arya Vidyapeeth College, Guwahati, Assam on 16 August 2020.
- Invited speaker(Webinar) in 'National Workshop on Analysis and Linear Algebra (NWALA2020)' held during July 23-24, 2020 at D.H.S.K. College, Dibrugarh, Assam.
- Deilvered an Invited Talk(Webinar) on 'CONSTRUCTION OF REAL NUMBERS' in an online lecture series organised by University of Science and Technology, Meghalaya on 21 June 2020.
- Deilvered an Invited Talk(Webinar) on 'CARDINALITY OF SETS' organised by University of Science and Technology, Meghalaya on 12 June 2020.
- Resource Person in the Mini MTTS program of the MTTS Trust (National Board for Higher Mathematics) at Kaziranga University, Jorhat, Assam during 22<sup>nd</sup> - 27<sup>th</sup> February, 2020.

## 2019

- Resource person in the PTMT (Pedagogical Training for Mathematics Teachers) programme (Under the aegises of MTTS Trust funded by NBHM) on Group Theory, at Department of Mathematical Sciences, Tezpur University during 25<sup>th</sup> – 30<sup>th</sup> December, 2019
- Resource person in the Workshop of 'Mathematics Learning' under TEQIP-III of MHRD, GoI organised by Assam Science and Technology University(ASTU) and GIMT Tezpur at GIMT Tezpur on 16<sup>th</sup> November, 2019.
- Resource person in the Capacity Building Programme in Mathematics for Secondary and Senior Secondary teachers organised by CBSE at Tezpur Gurukul School, Tezpur during 27<sup>th</sup> – 28<sup>th</sup> August, 2019.
- Resource person in the Faculty Development Program under TEQIP-III of MHRD, GoI organised by Assam Science and Technology University(ASTU) and GIMT Tezpur at GIMT Tezpur on 26<sup>th</sup> August, 2019.
- Resource person in the Capacity Building Programme in Mathematics for Secondary and Senior Secondary teachers organised by CBSE at Kingcup Public School, Itanagar during 26<sup>th</sup> – 27<sup>th</sup> July, 2019.
- Acted as resource person in the Mathematics Olympiad training programme organised by and held at Darrang College, during 8<sup>th</sup> and 9<sup>th</sup> July 2019

- Acted as resource person in the “Mathematics Training Programme for undergraduate teachers and students” held at IIT Guwahati from 1<sup>st</sup> to 6<sup>th</sup> July, 2019 organised by Centre for Educational Technology (under PMMMNMTT) and Department of Mathematics, IIT Guwahati.
- Delivered an invited talk on the eve of Pi-day celebration at University of Science and Technology, Meghalaya on 14<sup>th</sup> March 2019.
- Delivered a one and half hour invited talk titled “*On some special types of primitive elements over finite fields*” in the UGC-SAP sponsored national seminar Topology and Algebra at NEHU, Shillong on 13<sup>th</sup> March 2019.
- Acted as a resource person in INMO training camp at Assam Science Society office, Guwahati, organized by Assam Academy of Mathematics sponsored by NBHM on 5<sup>th</sup> January 2019.

## 2018

- Invited talk on “*Fun with Mathematics*” at GIMT Tezpur on the eve of National Mathematics Day Celebration organized by GIMT, Tezpur on 22<sup>nd</sup> December 2018.
- Delivered a series of 5(five) lectures on *Rings and Modules* in ‘A short term course on Algebra and Optimization’, at NIT Nagaland, during 10<sup>th</sup> - 12<sup>th</sup> December, 2018.
- Resource Person in the Mini MTTS program of the National Board for Higher Mathematics at Kohima Science College, Nagaland, during 3<sup>rd</sup> - 8<sup>th</sup> December, 2018.
- Resource person in the Capacity Building Programme in Mathematics for Secondary and Senior Secondary teachers organised by CBSE at Maria’s Public School Guwahati during 2<sup>nd</sup> – 3<sup>rd</sup> November, 2018.
- Resource person in the TPM (Training Programme in Mathematics)(Level-1) 2018 of D.A.E. Govt. of India at NISER Bhubaneswar during 4<sup>th</sup> June - 16<sup>th</sup> June, 2018.
- Delivered a series of 5(five) lectures on *Rings and Modules* to the teachers and research scholars of NEHU, Shillong, as a Visiting Professor under the UGC SAP DRS II programme in Mathematics, during 22<sup>nd</sup> - 25<sup>th</sup> March 2018.
- Resource Person in the Mini MTTS program of the National Board for Higher Mathematics at Tezpur University, during 3<sup>rd</sup> - 8<sup>th</sup> January, 2018.

## 2017

- Invited talk on Srinivasa Ramanujan and interaction with the students and faculty members of GIMT Tezpur on the eve of National Mathematics Day Celebration organized by GIMT, Tezpur on 22 December 2017.
- Delivered an Invited talk on “Current Trends in Ring Theory” at NIT Nagaland on 15<sup>th</sup> September, 2017.
- Resource person in the “Innovative and Contemporary Teachers Training Program”(ICTM)(Under PMMMNMTT, DHE, GoI) at NIT Silchar during 14<sup>th</sup> August - 18<sup>th</sup> August, 2017.
- Resource person in the TPM (Training Programme in Mathematics)(Level-1) 2017 of D.A.E. Govt. of India at NISER Bhubaneswar during 5<sup>th</sup> June - 17<sup>th</sup> June, 2017.

## 2016

- Resource Person in the Mini MTTS program of the National Board for Higher Mathematics at Mizoram University, during 14<sup>th</sup> - 17<sup>th</sup> December, 2016.
- Resource person in the TPM (Training Programme in Mathematics)(Level-2) 2016 of D.A.E. Govt. of India at NISER Bhubaneswar during 6<sup>th</sup> June - 18<sup>th</sup> June, 2016
- Resource person in the MTTS program (Level-I) of the National Board for Higher Mathematics at IIT Madras, Chennai, during 23<sup>rd</sup> May - 5<sup>th</sup> June, 2016.

## 2015

- Resource person in the TPM (Training Programme in Mathematics)(Level-1 and 3) 2015 of D.A.E. Govt. of India at NISER Bhubaneswar during 8<sup>th</sup> June - 20<sup>th</sup> June, 2015
- Resource person in the MTTS program (Level-0) of the National Board for Higher Mathematics at Goa University, during 11<sup>th</sup> May - 23<sup>rd</sup> May, 2015.
- Delivered a series of seven (7) lectures on *Real Analysis and Linear Algebra* in the Workshop on Algebra and Analysis from 17<sup>th</sup> to 23<sup>rd</sup> February, 2015, sponsored by NBHM at Tezpur University.

## 2014

- Delivered a series of three (3) lectures *Real Analysis* in the One week Faculty Development Programme for the teachers of Mathematics in degree colleges (having major in Mathematics) of Assam from 12<sup>th</sup> to 18<sup>th</sup> December 2014 (sponsored by UGC-SAP(DRS-I)) at Tezpur University.
- Resource person in the MTTS program (Level-0) of the National Board for Higher Mathematics at IIT, Guwahati during 23<sup>rd</sup> June -5<sup>th</sup> July, 2014.

## 2013

- Delivered an invited talk on *Construction of Real number system* at D.H.S.K. College, Dibrugarh, Assam on September 21, 2013.
- Delivered a series of two lectures on *Real Analysis* in the Workshop on Undergraduate Algebra, Analysis and its Applications for North East, organized Jointly by the Indian Statistical Institute, North East Centre and the Department of Mathematical Sciences, Tezpur University, March 28 to April 03, 2013 sponsored by Indian Statistical Institute and a UGC-SAP (DRS-I) of Tezpur University.

## 2012

- Resource person in the MTTS program (Level-0) of the National Board for Higher Mathematics at IIT, Guwahati during 14-26 May, 2012.
- Delivered a one hour invited talk on *Almost Nil clean rings* in the National conference on Emerging trends in Mathematics and its applications D.A.V. College Jalandhar (Punjab), 4<sup>th</sup> February to 6<sup>th</sup> February, 2012.



## 2011

- Delivered a series of six lectures in a six day NBHM sponsored workshop (Mathematical Excursion) for Mathematics Olympiad for the students of Class IX, X, XI, XII and school teachers organized by Assam Academy of Mathematics at NIT Silchar from 30<sup>th</sup> June to 5<sup>th</sup> July 2011.

## 2010

- Delivered a series of two lectures in a 2 day workshop for PGT and TGT teachers of all Kendriya Vidyalayas of North East for Mathematics Olympiad in KV Srikona, Silchar, Assam on 19<sup>th</sup> and 20<sup>th</sup> February 2010.
- Resource person in INSPIRE a programme of DST, Govt. of India, for students of Higher secondary of all Assam in Assam University, Silchar from 4th to 10th February, 2010.

## OLD

- Resource person in the MTTS program (Level-0) of the National Board for Higher Mathematics at IIT, Guwahati during May - June, 2007.
- Delivered a series of four lectures on *Real Analysis* in a 7-day workshop for graduate level students of different colleges under Dibrugarh University at the Department of Mathematics, Dibrugarh University, Organised by META (Mathematics Education Trust of Assam), 2004-05.

## Conference/Seminar/workshop attended:

- *50th symposium on ring theory and representation theory*, 7 - 10 October, 2017, University of Yamanashi, Kofu, Japan.
- International Workshop on *Fuzzy Sets, Rough Sets, Uncertainty Analysis and Applications*, 21<sup>st</sup> – 25<sup>th</sup> November, 2011, organised jointly by ISI Kolkata and dept. of Mathematics, NIT Durgapur, West Bengal.
- *The 6<sup>th</sup> IMT - GT International conference on Mathematics, Statistics and its applications (ICMSA 2010)*, 3 - 4 November, 2010, Kualalumpur, Malaysia,
- International Workshop on *Computational methods and Function Theory (CMFT, 2008)*, IASST, Guwahati, 3 -10 January, 2008.
- Workshop on *Mathematical Programming and related topics on Optimization Methods, Application and Practices* organized by ISI Kolkata jointly with the Department of Statistics, Dibrugarh University, at Dibrugarh University, 12 - 14 November, 2007.
- Workshop on *Some Recent Trends in Application of Mathematics*, Department of Mathematics, Dibrugarh University, 9 - 10 March, 2006
- *Regional Seminar on Mathematics*, Department of Mathematics, Dibrugarh University, 10<sup>th</sup> January, 2005.
- *The Annual Conference of Kerala Mathematical Association and National Seminar on Fuzzy Mathematics and Applications*, Kerala, India, 8 - 10 January, 2004.
- *International Symposium on Mathematics and its Application*, Department of Pure Mathemat-

ics, University of Calcutta, Kolkata, India, 13 -15 November, 2002.

- *89th Session of Indian Science Congress 2002*, Lucknow University, Lucknow, India.
- *Turn of the Millennium Lectures in Mathematics, Functional Analysis: Current Directions*, IIT Guwahati, 20 - 24 December, 1999.

### **Seminar/workshop organised:**

- *PTMT (Pedagogical Training for Mathematics Teachers)* programme (Under the aegis of MTTTS Trust funded by NBHM) on Group Theory, at Department of Mathematical Sciences, Tezpur University during 25<sup>th</sup> – 30<sup>th</sup> December, 2019
- *Mini MTTTS* from 3<sup>rd</sup> to 8<sup>th</sup> January, 2018, sponsored by NBHM at department of Mathematical Sciences, Tezpur University.
- *Workshop on Algebra and Analysis* from 17<sup>th</sup> to 23<sup>rd</sup> February, 2015, sponsored by NBHM at Tezpur University.
- One week *Faculty Development Programme* for the teachers of Mathematics in degree colleges (having major in Mathematics) of Assam from 12<sup>th</sup> to 18<sup>th</sup> December 2014 (sponsored by UGC-SAP (DRS-I)) at Tezpur University.
- Workshop on *Undergraduate Algebra, Analysis and its Applications for North East*, organised Jointly by the Indian Statistical Institute, North East Centre and the Department of Mathematical Sciences, Tezpur University, March 28 to April 03, 2013 sponsored by Indian Statistical Institute and a UGC-SAP (DRS-I) of Tezpur University.
- Conducted a Six day NBHM sponsored workshop (Mathematical Excursion) on Mathematics for the students of Class IX, X, XI, XII and school teachers organized by Assam Academy of Mathematics at NIT Silchar from 30<sup>th</sup> June to 5<sup>th</sup> July 2011.

### **Reviewer**

- Mathematical Reviews (AMS).
- Annals of Fuzzy Mathematics and Informatics.
- An. Univ. Oradea, Fasc. Mat.(Analele Universitatii din Oradea. Fascicola Matematica)
- Mathematical Forum
- Transactions of A. Razmadze Mathematical Institute (Elsevier)
- Boletim da Sociedade Paranaense de Matematica
- Proceedings of the National Academy of Sciences, India, Section A: Physical Sciences (Springer)
- Zentralblatt MATH
- Southeast Asian Bulletin of Mathematics
- Jordan Journal of Mathematics and Statistics
- Finite Fields and Their Applications
- Bulletin of Australian Mathematical Society

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