

## MD. MAINUL HASAN

**Post-doc Fellow (Plant cell Biotechnology Lab.): 2008-2009: MU, Thailand**  
**PhD (Crop Production & Cropping System): 2006, UPM, Malaysia**  
**MSc (Agricultural Systems): 2001, AIT, Thailand**  
**BSc (Agriculture): 1998, BAU, Bangladesh**

### Professor

Department of Agricultural Botany, Faculty of Agriculture  
Patuakhali Science and Technology University  
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URL: <http://pstu.ac.bd/teachers/dr.-md.-mainul-hasan>

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### PERSONAL STATEMENT

Currently, I am serving as a full time faculty in a public university, Bangladesh, where I am teaching both graduate and undergraduate level courses in the area of plant morphology, plant anatomy, plant physiology, crop ecology, biotechnology, research methodology and agro-climatology related courses. I worked as a deputy sub-project manager with Higher Education Quality Enhancement Project (CP 6169); co-principal investigator with BAS-USDA-Program in Agricultural and Life Sciences project; and associate investigator of Science and Technology Research project of Ministry of Science and Technology. In the past, I received research grant from UGC, Bangladesh to conduct research on sustainable crop production. I have unique multidisciplinary research experiences, which includes Agronomic (crop production & cropping system), Watershed management (sustainable farming & land productivity), Nutritional (animal feeds and feeding) and Biotechnology (fertigation and agro-forestry) related research. I did collaborative research with international community during post-doc research at MU, Thailand and in NAF, Nepal as a part of DANIDA-AIT twinning program. Moreover, during postgraduate education, I coordinated a broad range of field visits in different leading overseas universities (NAIST, Japan; NUS, Singapore; TU, BCKV, India; Nepal; CU, Hong Kong). I also have experiences in guiding graduate students in their research (supervisor: 05; co-supervisor: 21 and 02 ongoing). In addition, I jointly organized WB-funded workshop for the Sri Lankan government delegates at AIT, Thailand. In addition, I have good command in computer (both hardware & software) and proficient in MS Office and various specialized research suites including SPSS, Minitab, SAS; Internet and Web design. I enjoy learning things from diverse cultural and social settings and utilize my knowledge and expertise for the benefit of mankind. My long-term career goal is to be a part of an active international academic or R & D community to contribute towards high-quality teaching and research in Agriculture.

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### EDUCATION

**Post-doc Researcher** (Plant cell biotechnology laboratory)  
July 2008 - June 2009, Mahidol University, Thailand

*Specialization:* Fertigation and Agro-forestry technique with Macadamia plant

*Major contribution:* Macadamia is a lucrative cash crop and grow fairly well in the hills of northern Thailand but abnormal growth, sporadic flower and fruit throughout the year have been reported. So,

a systematic scientific approach and careful attention need to focus on the factors that limit the growth of the plant and quality of the nut in order to take corrective measures. Moreover, macadamia tree has a potential to grow in forest ecosystem and thus provide protection of forestlands from further depletion. A study therefore focused on various determinants of yield improvement and explored the reforestation potential of macadamia.

**Ph.D.** (Crop Production and Cropping System)  
2002 -2006, University Putra Malaysia (UPM), Malaysia

**Course work: CGPA** 3.98

**Specialization:** Feed formulation, Animal nutrition, and Pasture management

**Major contribution:** In livestock production, feeds constitute a large proportion of the total cost, which hinders intensive livestock production. The only option available to feed animals is by residues of different crops. Utilization of rice straw by ruminants is the most efficient means due to its abundance and digested by rumen. The study focused on formulation and evaluation of rice straw-based total mixed ration for ruminant by upgrading their nutritive values and to obtain a satisfactory growth of animals. Certainly, the findings bring the benefit to the feed-miller and the livestock grower for intensive ruminant production.

**M.Sc** (Agricultural Systems)  
2000-2001, Asian Institute of Technology (AIT), Thailand

**CGPA** 3.67; Thesis Grade: Excellent

**Specialization:** Integrated Watershed Development and Management (IWDM)

**Major contribution:** Ban Pong Chanuan is a village in northeast Thailand and located in the area of Lam Phra Phloeng watershed. It was identified through a reconnaissance survey that destructive farming technique resulted in low crop yield and depletion of forestlands. The project focused on some selected agronomic and social indices to characterize the existing farming systems of the watershed. Some selected soil physical and chemical analyses were done to determine the land productivity, which has direct impact on yield of crop. Based on the information and experimental result, a suitable cropping system was recommended for the watershed to improved land productivity and increase crop production.

Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Bangladesh: 1999

Graduate-level courses: Principles of Crop Production, Crop Physiology, Crop Ecology, Crop Growth and Culture, Weed Control, Plant Physiology, Seed Science, Soil Fertility.

**Research:** Productivity of rapeseed (*Brassica napus*) genotypes in relation to their morphological and physiological characters under different water regime

**B.Sc** (Agriculture)  
Bangladesh Agricultural University (BAU), Bangladesh  
Academic year (1989-'93) Degree conferred in 1998

**First Class** honours (CGPA equivalent to  $\leq 3.5$  in 4.0 scales)

**Major Courses:** Agronomy, Horticulture, Biology (Botany/Zoology), Soil Science, Statistics, Genetics and Plant Breeding, Agricultural Economics, Animal Husbandry, Farm Mechanics,

Entomology, Plant Pathology, Rural Sociology, Agricultural Extension, Chemistry (Physical & analytical, Organic, and Biochemistry)

Notes: 12-year pre-university education in Bangladesh  
1977-89, Higher Secondary Certificate, and Secondary School Certificate held nationwide  
**First class** in both HSC and SSC education.

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## **EMPLOYMENT HISTORY**

Present Position

### **Professor**

March 2017 - Present  
Department of Agricultural Botany, Faculty of Agriculture  
Patuakhali Science and Technology University (PSTU), Bangladesh

### **Associate Professor**

December 2011 - March 2017  
Department of Agricultural Botany, Faculty of Agriculture  
Patuakhali Science and Technology University (PSTU), Bangladesh

### **Assistant Professor**

March 2009 - December 2011  
Department of Agricultural Botany, Faculty of Agriculture  
Patuakhali Science and Technology University (PSTU), Bangladesh

### **Lecturer**

March 2007 - 2009  
Department of Agricultural Botany, Faculty of Agriculture  
Patuakhali Science and Technology University (PSTU), Bangladesh

### *Major Responsibilities*

- Teaching and research, both for undergraduate and graduate students
- Curriculum development for graduate and undergraduate programs
- Preparation of standard course materials for classroom teaching and online learning
- Offer specialized courses to professional community as well as farmer organization
- Actively participate in university academic council and share views
- Explore external research fund and follow up collaborations
- Establish academic/research linkage with regional/international institutes

### **Research Associate**

December 2002-June 2006  
University Putra Malaysia (UPM), Malaysia

### *Major Responsibilities*

- Conduct R&D according to UPM's strategic plan
- Consolidate and disseminate research activities and findings
- Assist laboratory personnel in budgeting, planning and maintenance
- Teaching undergraduate courses, supervise young researchers and interns
- Prepare posters, leaflets and web contents to disseminate news and events

**Research Assistant**

October 2001-November 2002

Asian Institute of Technology (AIT), Thailand

***Major Responsibilities***

- Conduct R&D in accordance with ongoing project
- Collaborate twinning program with partner organizations
- Jointly organize training/workshop for the foreign delegates
- Prepare technical reports, scholarly articles for the trainees
- Assist in project meeting, excursion and peer-evaluation exercise

**Research and survey:** Attempts for improvement of land productivity through cropping systems in the hills of Nepal.

**Agriculture Officer**

November 1998 - January 1999

SOS: International NGO, Khulna, Bangladesh

***Responsibilities***

Motivate to promote scientific cultivation and sustainable agriculture among the rural farmers and the SOS-Boys (young orphans sheltered and brought up by the NGO)

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**CONFERENCES, TRAINING AND WORKSHOP****Virtual Training and Workshop** on Annual Performance Agreement (APA)

14 June 2021

Organized by Patuakhali Science and Technology University (PSTU), Bangladesh

**Training** on Fall Armyworm Management

19 February, 2020

Jointly organized by FAO and DAE in collaboration with PSTU, Bangladesh

**Workshop** on Quality Assurance System in PSTU and Accreditation

31 December, 2019

Organized by IQAC of Patuakhali Science and Technology University (PSTU), Bangladesh

**Workshop** on Annual Performance Management (NIS-APA Workshop 2019)

16 November, 2019

Organized by Patuakhali Science and Technology University (PSTU), Bangladesh

**Training** on Pesticide Application Technology

11 April, 2019

Funded and Organized by Syngenta Bangladesh Limited

Collaboration with Postgraduate Studies, PSTU, Bangladesh

**Workshop** on Designing outcome-based curriculum, Faculty of Agriculture

29 - 30 September, 2018

Organized by Self Assessment Committee, Faculty of Agriculture

Institutional Quality Assurance Cell of PSTU, Bangladesh

**Training-Workshop** on Teaching-Learning of Agricultural Science Education of PSTU  
22 - 28 September, 2018  
Organized by HEQEP sub-project, CP 6169  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Seminar** on Important Underutilized Plants of Bangladesh: Alternative Sources of Food, Feed, and Raw Materials for the Industry  
18 April, 2018  
Department of Agricultural Botany, Patuakhali Science & Technology University, Bangladesh

**Workshop** on Formulation of post self-assessment improvement plan  
29 March, 2018  
Institutional Quality Assurance Cell of PSTU, Bangladesh

**Seminar** on Horticultural interventions at PSTU and challenges ahead  
3 March, 2018  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Seminar** on Revising rules of probation in PSTU  
6 November, 2017  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Training** Course on Administrative and Financial Management  
22-23 September, 13-14 October, 2017  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Seminar** on Strengthening research capabilities of postgraduate programs in Genetics and Plant Breeding of PSTU  
22 May, 2017  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Seminar** on Overview and achievement of HEQEP sub-projects at PSTU  
3 May, 2017  
Organized by Patuakhali Science and Technology University (PSTU), Bangladesh

**Workshop** on Sharing the survey results with the faculty members  
21 March, 2017  
Organized by Self Assessment Committee, Faculty of Agriculture, (PSTU), Bangladesh

**Seminar** on Prospect of cotton cultivation in coastal areas of Bangladesh  
5 March, 2017  
Organized by Cotton Development Board, Jashore  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Workshop** on Team building & introducing self-assessment process for the faculty of Agriculture  
11 March, 2016  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Training Workshop** on ARMIS Software and its operation  
29 February, 2016  
University of Barishal, Bangladesh

**Course** on Curriculum development for the faculty of Agriculture  
18-20 February, 2016  
Graduate Training Institute (GTI) in collaboration with IQAC of PSTU, Bangladesh

**Workshop** on Development of stress research protocol  
31 March, 2015  
Organized by HEQEP sub-project, CP 2431  
Patuakhali Science and Technology University (PSTU), Bangladesh

**In-service Training** on Administrative and Financial Management  
21-23, 29-30 October, 2010  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Conference** on Agricultural Waste Management  
Business opportunities in Agricultural waste  
Eastin Hotel, Petaling Jaya, Malaysia 11-12 August, 2003

**Annual conference** on Natural Products and Nutraceuticals in Animal Production  
Malaysian Society of Animal Production (MSAP)  
Melaka, Malaysia. 1-3 August, 2003

**International Conference** on Animal Nutrition (ICAN)  
Marriott Hotel, Putra Jaya, Malaysia. 3-5 March, 2003

**Training program** on 'Sustainable Watershed Management'  
School of Environment Resources and Development, AIT, Thailand 25 June-1 July, 2001

**Training program** on 'Upper Watershed Management Project, Sri Lanka'  
School of Environment Resources & Development, AIT, Thailand 27 Aug.-1 Sept., 2001

**Training program** on "Agricultural Approach for Sustainable Watershed Management"  
School of Environment Resources and Development, AIT, Thailand 22 April-6 May, 2002

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## **AWARDS, SCHOLARSHIPS AND FELLOWSHIPS**

**Silver Medal** (May 2006): Award for invention/innovation of ' pelleted rice-straw based total mixed ration for ruminants'.  
ITEX'06, Kuala Lumpur Convention Centre, Malaysia.

**Silver Medal** (May 2005): Award of inter-university competition for invention/innovation of new research product .  
Research Management Centre, University Putra Malaysia.

**RA Fellowship** (November 2002-December 2005): Awarded fellowship from the Ministry of Science, Technology and Innovation (MOSTI) for PhD education at UPM, Malaysia.

**DANIDA Scholarship** (January 2000-August 2001): Awarded Danish government (DANIDA) fellowship for M.Sc education at AIT, Thailand .

**Merit Scholarship** (Feb.-Dec., 1999): Award for academic excellence, Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Bangladesh.

**Merit Scholarship** (1989-1993): Award for academic excellence, four consecutive years of undergraduate study at Bangladesh Agricultural University (BAU), Bangladesh.

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## **ADMINISTRATIVE AND PROFESSIONAL INVOLVEMENT**

**Member of the Advisory Board**, Journal of Patuakhali Science and Technology University  
June 2021 – Present  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Provost**, Kabi Begum Sufia Kamal Hall  
20, March 2019 –  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Chairman of the Ph.D. Examination Committee**: (05, May 2019): MD. MOHIDUL HASAN  
(Reg. No. 04165), Department of Agricultural Extension and Rural Development, PSTU.  
*Dissertation title*: Effectiveness of Training on Sweet Potato Cultivation for Char Lander at Kurigram.

**Chairman of the Ph.D. Examination Committee**: (28, October 2018): SALINA SULTANA  
(Reg. No. 04164), Department of Genetics and Plant Breeding, PSTU.  
*Dissertation title*: Genetic improvement of bottle gourd [Lagenaria siceraria] for yield and quality.

**Chairman, Department of Agricultural Botany** :  
2, April 2018 - 29, June 2020  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Member of the Academic Council**  
November 2013 - October 2015  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Member of the Faculty Executive Committee**  
2014 - Present  
Faculty of Agriculture, Patuakhali Science and Technology University, Bangladesh

**Member of the Faculty Executive Committee**  
2015 -  
Faculty of Disaster Management, Patuakhali Science & Technology University, Bangladesh

**Controller of Examinations**  
January 2012 - July 2013  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Deputy Controller of Examinations**  
March 2011 - December 2011  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Assistant Controller of Examinations**  
August 2009 - February 2011  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Member of the Syllabus Committee**  
2009 -  
Department of Environmental Science and Disaster Management  
Patuakhali Science and Technology University (PSTU), Bangladesh

**Member of the Examination Committee**  
2007 – Present  
Department of Agricultural Botany, PSTU, Bangladesh

**Member of the Planning and Execution Committee**

2007 - Present

Department of Agricultural Botany, PSTU, Bangladesh

**Member of the Central Laboratory Management Committee**

2007 - Present

Patuakhali Science and Technology University (PSTU), Bangladesh

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**OTHER INSTITUTIONAL AFFILIATIONS****Visiting/Honorary staff**

November 2013 - Present

Southasia Institute of Advanced Studies (SIAS), Nepal

[www.sias-southasia.org/new/people/visiting-honorary/](http://www.sias-southasia.org/new/people/visiting-honorary/)

**External Examiner (Undergraduate program)**

Department of Nutrition and Food Technology

Jashore University of Science and Technology (JUST), Bangladesh

<https://just.edu.bd/>

**External Examiner (Undergraduate program)**

Department of Crop Botany

Bangladesh Agricultural University, Bangladesh

[www.bau.edu.bd/](http://www.bau.edu.bd/)

**External Examiner (Postgraduate program)**

Department of Crop Physiology and Ecology

Hajee Mohammad Danesh Science and Technology University, Bangladesh

[www.hstu.ac.bd/](http://www.hstu.ac.bd/)

**Thesis Examiner (Postgraduate program)**

Department of Crop Physiology and Ecology

Hajee Mohammad Danesh Science and Technology University, Bangladesh

[www.hstu.ac.bd/](http://www.hstu.ac.bd/)

**Thesis Examiner (Postgraduate program)**

Department of Agricultural Botany

Sher-e-Bangla Agricultural University, Bangladesh

[www.sau.edu.bd/](http://www.sau.edu.bd/)

**Chief Advisor**

Student Association of Satkhira (SAS)

Patuakhali Science and Technology University, Bangladesh

**Chief Advisor**

Khulna Student Welfare Association (KSWA)

Patuakhali Science and Technology University, Bangladesh

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## AFFILIATIONS WITH JOURNALS / EDITORIAL BOARD

**Reviewer:** (July 2021 – Present)

International Journal of Research and Innovation in Applied Science (IJRIAS)

<https://www.rsisinternational.org/>

**Member of the Advisory Board:** (June 2021 – Present)

Journal of Patuakhali Science and Technology University (Journal-PSTU)

<http://pstu.ac.bd/journal/>

**Reviewer:** (January 2020 – Present)

Pertanika Journal of Tropical Agricultural Science (JTAS)

<http://www.pertanika.upm.edu.my/JST.php>

**Reviewer:** September 2018 - Present

Journal of Agricultural Sciences (JAS)

Kamla-Raj Enterprises: <http://www.krepublishers.com>

**Editorial Board Member:** May 2018 - Present

Malaysian Journal of Halal Research (MJHR)

<https://www.myhalalresearch.com/>

**Editor of Project Proposal** (2018 – Present)

Research and Training Center of PSTU

<http://www.pstu.ac.bd/offices/rtc>

**Reviewer:** May 2017 - Present

Pertanika Journal of Tropical Agricultural Science (JTAS)

[www.pertanika.upm.edu.my/pertanika\\_journals.php](http://www.pertanika.upm.edu.my/pertanika_journals.php)

**Reviewer:** May 2017 - Present

Journal of Agrobiotechnology (JAB)

[www.journal.unisza.edu.my/agrobiotechnology/index.php/agrobiotechnology](http://www.journal.unisza.edu.my/agrobiotechnology/index.php/agrobiotechnology)

**Reviewer:** July 2016 –

Acta Physiologiae Plantarum

[www.editorialmanager.com/acpp/default.aspx](http://www.editorialmanager.com/acpp/default.aspx)

**Editorial Board Member:** December 2014 - Present

Wudpecker Journal of Agricultural Research (WJAR)

[www.wudpeckerresearchjournals.org](http://www.wudpeckerresearchjournals.org)

**Reviewer:** April 2012 - Present

Journal of Agricultural Science and Technology (JAST)

[www.davidpublishing.org](http://www.davidpublishing.org)

**Reviewer:** June 2016 -

Experimental Agriculture – Cambridge Journals online

[www.journals.cambridge.org/EAG](http://www.journals.cambridge.org/EAG)

**Editorial Board Member:** May 2009 - Present

Journal of Plant Breeding and Crop Science (JPBCS)

[www.academicjournals.org/JPBCS](http://www.academicjournals.org/JPBCS)

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## RESEARCH GRANTS

### **Science and Technology Research Grant** of MoST, Bangladesh

BS-245: Ex-situ conservation of medicinal and aromatic plants through tissue culture techniques. Project worth 2,362 USD.

### **Science and Technology Research Grant** of MoST, Bangladesh

BS-301: Breeding for saline resistant Jute varieties through rapid screening and DNA marker assisted selection. Project worth 7,000 USD.

### **WB funded- Higher Education Quality Enhancement Project** of MoE, Bangladesh

CP6169: Modernizing of teaching-learning of Agricultural Science education at Patuakhali Science and Technology University. Project worth 2,50,000 USD.

### **BAS-USDA Program in Agricultural and Life Science**

CR48: Collection, regeneration, conservation and improvement of cultural practices for Murta (*Schumannianthus dichotoma*) production. Project worth 50,000 USD.

**University Research Grant** (2007-2008): Awarded research grant from the University Grants Commission, Bangladesh. Project worth 1,500 USD.

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## POSTGRADUATE RESEARCH SUPERVISION

**MS student research:** 26 (Supervisor - 05, Co-supervisor - 21)

Supervisor

1. Effect of Gibberellic acid (GA<sub>3</sub>) on growth and yield of Cowpea (*Vigna unguiculata*). Abu Jafor Muhammad Nur Nabi. (June 2012)
2. Effect of bio-fertilizer on growth and yield responses of Lentil (*Lens culinaris*). Md. Nur Alam Siddiqui. (December 2012)
3. Selection of adaptive tomato genotypes for Patuakhali region. Md. Nazmul Ahsan. (December 2013)
4. Adoption of disaster risk reduction strategy in agriculture sector and it's effectiveness in climate change adaptation at Sharankhola upazila. Prome Debnath. (December 2017)
5. Impact of climate change on Agriculture sector and its adaptative practices: A case study from Mehendiganj upazilla. Md. Saddam Hossain. (December 2018)

Co-supervisor

1. Performance of four wheat varieties under saline stressed condition. Md. Abu Abdullah Al-Musa. (December 2011)
2. Response of Nitrobenze on growth and yield of Chickpea in Patuakhali region. Md. Lutfor Rahman. (June 2012)
3. Promotion of hand washing to control childhood diarrhea in the coastal community of Dasmina Patuakhali. Md. Shajedur Rahman. (December 2013)
4. Screening of salt tolerant Jute (*Corchorus capsularis*) genotypes for AEZ-13. Bijoy Biswas. (June 2013)
5. Performance of wheat as influenced by different moisture level. Sheikh Tariqul Islam. (2013)

6. Murta cultivation in marshy fallow lands and its impact on soil quality and rural economy. Md. Emad Mustofa. (December 2013)
7. Effect of seedling age on growth and yield of Moulata and Dudhkalam dhan. Md. Shamim Ahmed. (June 2014)
8. Growth and yield performance of T. Aman rice varieties under different time of transplanting. Satyajit Roy (June 2014)
9. Effect of nitrobenzene on growth and yield of Boro rice. Badal Chowdhury (December 2014)
10. Foliar application of balanced mixed fertilizer on growth and yield of Boro rice. Mithun Chandra Sikder. (December 2014)
11. Selection of suitable T. aman rice genotypes for Patuakhali region. Md. Rasel. (June 2014)
12. Growth and yield performance of some selected aromatic T. aman genotypes. Md. Aminul Islam. (June 2014)
13. Effect of different organic manures on growth and yield of Cabbage. Md. Ahsan Habib. (November 2014)
14. Effect of concentrated fertilizer supplement (Cropmax) on growth and yield of Mungbean (*Vigna radiata*). Laila Arjumand Shimu. (December 2014)
15. Effect of foliar application of Gibberellic acid on the growth and yield responses of Mungbean (*Vigna radiata* L.). Md. Moshiur Rahman. (June 2015)
16. Selection of suitable Mungbean (*Vigna radiata* L) variety for Patuakhali region. Md. Miraj Hossain. (December 2015)
17. Effect of integrated nutrient management on the growth and yield of Cauliflower (*Brassica oleracea* var. *botrytis*). Umme Kulsum Shanta. ( December 2016)
18. Effect of integrated use of organic and inorganic fertilizer on the growth and yield of Potato. Sabrina Akter Ratna. (December 2016)
19. Effect of soil conditioner and frequency of irrigation on the yield and yield attributes of Boro rice (BRRI dhan29). Md. Ziaur Rahman. (June 2016)
20. Genotypic variation in flowering pattern and reproductive efficiencies of Mungbean. Md. Nazrul Islam. (June 2016)
21. Effect of source-sink manipulation on yield contributing characters and yield of Sesame (*Sesamum indicum* L.). Shawon Kumer Bain. (December 2016)

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## FOREIGN LANGUAGES

**Bengali:** Native level competency

**English:** Excellent -all skills )Listening, speaking, reading, and writing (

**Thai and Melayu:** Beginner's level proficiency including conversational skills

**Arabic, Hindi and Urdu:** Basic understanding

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## TOURS AND TRAVELS

**India:** (Tour guide: study tour to universities and research institutes based on Agriculture)

**Nepal:** (Collaborative research with Nepal Agroforestry Foundation)

**Singapore:** (Social visit to university and professor's laboratories)

**Hong Kong:** (Visit to university and professor's laboratories)

**Japan:** (Social visit to university and professor's laboratories)

**Thailand:** (MSc and Post-doc education/research)

**Malaysia:** (PhD research and education)

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## PROFESSIONAL MEMBERSHIPS

Life Member

Bangladesh Society of Plant Science and Technology (BSPST)

<http://www.bspst.org>

Member (Teachers Association)

Patuakhali Science and Technology University

<http://www.pstu.ac.bd>

Life Member

World Association of Soil and Water Conservation (WASWC)

<http://www.waswc.org/>

Life Member (0170)

Seed Science Society of Bangladesh (SSSB)

<http://www.sssb-bau.org/>

Alumni Member (BG004AU2001)

Asian Institute of Technology, AIT-Alumni Association (AITAA)

<http://www.aitaa.ait.ac.th/>

Active Member (01-94-6733)

Krishibid Institution, Bangladesh (KIB)

<http://kib.org.bd/>

General Member (Membership code 927)

Iranian Biotechnology Society (IBS)

[http://www.biotechsociety.ir/index.php?slc\\_lang=en&sid=1](http://www.biotechsociety.ir/index.php?slc_lang=en&sid=1)

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## AREAS OF ACADEMIC EXPERTISE AND RESEARCH INTERESTS

- Plant physiology and crop ecology
- Crop production and farming systems
- Watershed management and land productivity
- Pasture management and animal nutrition
- Pollutions and toxicity
- Organic farming

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## SELECTED PUBLICATIONS

### Book (English)

1. Utilization of rice straw in a total mixed ration for ruminants: Techniques to improve nutritive values of crop residues. Lambert Academic Publishing (2011-08-18). ISBN-13: 978-3-8454-2835-2.
2. A guide to grow Macadamia: Review and reference manual. Scholars' Press (2013-05-20). ISBN-13: 978-3-639-51453-7.
3. Diversity of plants at the Patuakhali Science and Technology University campus. [Almost ready to publish]

### Journal papers (National, Regional, and International)

- 1) Tran Van Dat, **Md. Mainul Hasan** (2019). Calibration of the Jensen' yield prediction model for rice crop cultivated in the northern region of Vietnam. *Pertanika Journal of Science and Technology*. 27 (3): 1169-1180.
- 2) Prome Debnath, **Md. Mainul Hasan**, A.K.M. Abdul Ahad Biswas, Avijit Biswas (2019). Adoption of disaster risk reduction strategy in agriculture sector at Southkhali Union of Sharankhola Upazila, Bangladesh. *Archives of Agriculture and Environmental Science*. 4 (2): 141-150.
- 3) SMD Haque, MHK Howlader, ABMMMM Khan, **MM Hasan**, SA Ratna (2019). Growth, development and yield attributes of black gram (*Vigna mungo L.*) varieties at Patuakhali region. *Journal of Agroforestry and Environment*. 13 (1 & 2): 77-79.
- 4) MZ Rahman, R Ahmed, A Shila, **MM Hasan**, MHK Howlader (2019). Interactive effects of irrigation and flobond on growth and yield of BRRI dhan29. *Progressive Agriculture*. 30 (2): 165-172.
- 5) B Chowdhury, MHK Howlader, MK Hossain, MC Sikder, **MM Hasan** (2018). Effect of nitrobenzene on growth and yield of boro rice. *Progressive Agriculture* 29 (4): 304-312.
- 6) Shamim Mia, Eamad Mustafa, **Md. Mainul Hasan**, Md. Abdul Kayum, Nasar Uddin Ahmed and Md. Harun-Or-Rashid (2018). Co-limitation of nitrogen and phosphorus causes culm shortness in the aged Murta (*Schumannianthus dichotomus*) plantation. *International Journal of Innovative Research*. 3(3):94–99.
- 7) MM Rahman, ABMMMM Khan, **MM Hasan**, LA Banu, MHK Howlader (2018). Effect of foliar application of gibberellic acid on different growth contributing characters of mungbean. *Progressive Agriculture*. 29 (3): 233-238.
- 8) LA Shimu, **MM Hasan**, ABMMMM Khan, MK Hossain, MHK Howlader (2018). Performance of concentrated *Cropmax* on growth and yield of mungbean. *Progressive Agriculture*. 29 (3): 239-247.
- 9) Md Ahsan Habib, Mohammad Humayun Kabir Howlader, Md Resad Mallik, **Md Mainul Hasan**, Md Isfatuzzaman Bhuyan, Akhinur Shila, Rayhan Ahmed and Abu Jafor Muhammad Nur Nabi (2018). Effect of different organic manures on growth and yield of cabbage. *International Journal of Advances in Agricultural Sciences*. 3 (11): 01-10.
- 10) ST Islam, MZ Haque, **MM Hasan**, ABMMMM Khan, UK Shanta (2018). Effect of different irrigation levels on the performance of wheat. *Progressive Agriculture* 29 (2): 99-106.
- 11) Sarwar Jahan and **Mainul Hasan** (2017). Light-harvesting complexes communicate growth and physiology of plants. *Indian Journal of Plant Physiology*. 23(1):1-6.  
DOI: <https://doi.org/10.1007/s40502-017-0325-9>. (Available online on 22 December 2017)
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