



## UNIVERSITY OF CALCUTTA

Department of Agronomy

### FACULTY ACADEMIC PROFILE/ CV

**Full name of the faculty member:** Dr. Rambilash Mallick

**Designation:** Associate Professor

**Specialisation:** Agronomy

**Passport size photograph:**



#### **Contact information:**

Department of Agronomy, Institute of Agricultural Science, University of Calcutta  
51/2, Hazra Road, Kolkata – 700019, E. mail: [rbmallick@rediffmail.com](mailto:rbmallick@rediffmail.com)  
Mobile no.: 9433668935

#### **Academic qualifications:**

College/ university from which the degree was obtained	Abbreviation of the degree
Visva Bharati University	B.Sc(Ag) Hons
Visva Bharati University	M.Sc(Ag) in Agronomy
Visva Bharati University	Ph. D. Agronomy (Weed Management)

#### **Positions held/ holding:**

- Head, Deptt. Of Agronomy, IAS, C.U.
- Head, Deptt. Of Agricultural Chemistry & Soil Science, IAS, C.U.

**Research interests:**

- (a) Weed Science- 21years
- (b) Nutrient Management-21years
- (c) Resource conservation agriculture -10 years

**Research guidance:**

Number of researchers awarded M.Phil/ PhD degrees:( 2+1)

Number of researchers pursuing M.Phil/ PhD : -6

**Select list of publications:**a) **Journals:**

1. Dash, N.R., Mallick, R.B. and Ghosh, G.K. 2007. Response of Musturd (*Brassica juncea* L.) to Sulphur as Magnesium Sulphate in Red and Lateritic Soil of Birbhum District of West Bengal. *Indian Agriculturist* **51**(1 & 2): 5-8.
2. Sarkar R.K., Mallick R.B. and Saha, A. 2008. Physiological Analysis of Growth and Productivity of Hybrid Rice (*Oryza sativa* L.) as Affected by Foliar Spray of Potassium Nitrate at Different Growth Stages. *Indian Agriculturist* **52**(3 & 4): 185-189.
3. Sarkar, R.K. and Mallick, R.B. 2009. Effect of nitrogen, sulphur and foliar spray of nitrate salts on performance of spring sunflower (*Helianthus annuus* L.) *Indian Journal of Agricultural Sciences*, **79**(12): 986-90.
4. Sarkar, R.K. and Mallick, R.B. 2009. Effect of planting geometry and nitrogen fertilization on productivity and economic feasibility of sunflower (*Helianthus annuus*) and greengram (*Vigna radiata*) intercropping system in rice fallow Gangetic alluvial land. *Indian Agriculturist* **53**(1&2): 13-19.
5. Roy, S.K., Trehan, S.P. and Mallick, R.B. 2009. Identification of wheat and rice varieties for profitable potato-wheat-rice system in Punjab. *Indian Agriculturist*, **53** (1&2): 75-78.
6. Sarkar, R.K. and Mallick, R.B. 2010. Influence of phosphorus, sulphur and boron on productivity and seed quality of sunflower (*Helianthus annuus* L.) in spring season. *Indian Agriculturist* **54**(1&2): 87-92.
7. Roy, S.K., Pal, P.P. and Mallick, R.B. 2010. A note on productivity of mustard and yield gap analysis in the state of West Bengal, Bihar and Jharkhand. *Indian Agriculturist* **54** (1&2):107-111.
8. Sarkar, R.K. and Mallick, R.B. 2010. Effect of planting geometry and nitrogen and phosphorus application on forage yield of oat (*Avena sativa*). *Crop Research* **40**(1, 2 & 3): 35-39.
9. Sinha, B.P. and Mallick, R.B. 2010. Physiological analysis of seed yield variation of sunflower (*Helianthus annuus* L.) as influenced by integrated nutrient management practices. *Journal of Interacademia* **14**(4): 444-451.
10. Sinha, B.P. and Mallick, R.B. 2011. Effect of integrated nutrient management on growth, seed yield and economics of sunflower (*Helianthus annuus* L.) *Environment & Ecology* **29**:562-567.
11. Mandal, A.K., Patra S., Mallick, R.B., Mahata, A. and Biswas, J. 2011. Efficacy of seed treatment in rice (cv. Swarnamasuri) for improved germinability and comparative study of field performance by conventional and system of rice intensification (SRI) technology. *Crop Research* **41** (1, 2 & 3): 227-232.

12. Mandal, A.K., Patra S., Mallick, R.B. and Guha, P. 2011. Seed invigoration treatment in rice for improved storability and comparative efficiency of treatment on field performance in system of rice intensification and conventional method. *Indian Agriculturist* **55** (3 & 4) : 121-128.
13. Mallick, R.B., Mandal, Jatati. And Bannerjee HIRAK. 2012 Growth and yield of greengram (*Vigna radiata*) as affected by row spacing and foliar application of nutrients] *Res. On crops* **13**(2): 525-528.
14. Kundu, R., Bera, P.S., Brahmachari, K. and Mallick, R.B. 2011. Integrated weed management in summer greengram (*Vigna radiata* (L.) Wilczek) under Gangetic alluvial soil of West Bengal. *Journal of Botanical Society of Bengal* **65** (1): 35-43.
15. Choudhury, Ritan., Roy Choudhury, Suborna., Brahmachari, K., Mallick, R.B. and Karmakar, Sruti. 2012. Integration of weed management practices in groundnut-upland rice-potato cropping sequence. *J Interacad.* **16** (3): 630-633
16. Kundu, S., Srinivasarao, Ch., Mallick, R.B., Venkateswarlu, B. and Naik, P. 2013. Conservation agriculture in maize-horsegram system in rainfed Alfisols. *Indian Journal of Agrometeorology* (Special Issue-1) **15**:144-149. Score: **8.0/20**.
17. Sarkar, R.K. and Mallick, R.B. 2014. Effect of Tillage System and Seed Rate on Productivity of Wheat (*Triticum aestivum* L.) Grown After Transplanted Rice (*Oryza sativa* L.) *Indian Agriculturist* **58** (2): 113-116.
18. Mallick, Anita. and Mallick, R.B. 2014. Effect of nutritional treatments on growth, productivity and quality of greengram in lower gangetic alluvial regions of West Bengal. *Indian Biologist* **46**(2): 39-44.
19. Mallick, R. B. and Raj, A. 2015. Influence of phosphorus, sulphur and boron on growth, yield, nutrient uptake and economics of rapeseed (*Brassica campestris* var yellow sarson) *International Journal of Plant, Animal and Environmental Sciences* **5**(3):22-27
20. Kundu, S., Srinivasarao, Ch., Mallick, R.B. 2015. Effect of soil amendment with tank silt and integrated nutrient management on yield, nutrient use efficiency and economics of maize (*Zea mays* L.)-horsegram (*Macrotyloma uniflorum* L.) system in rainfed Alfisols. *Indian Journal of Dryland Agricultural Research and Development* **15** (In press).
21. Kundu, S., Srinivasarao, Ch., Mallick, R.B. 2015. Effect of long term conservation agriculture practices and balanced fertilization on system productivity, nutrient use efficiency and soil physico-chemical properties in maize-horsegram sequence under rainfed condition. *Soil and Tillage Research* (Under review).
22. Duary B., Tejal, K. Charan, Roy Chowdhury, S. and R. B. Mallick. 2015. Weed growth and productivity of wet season transplanted rice as influenced by sole and sequential application of herbicides **1**(4):187-192.
23. Hembram, S.K., Sarkar, S. and Mallick, R.B. 2016. Impact Of Water Management Practices on Growth and Yield of Rice Grown Under System of Rice Intensification. *Environment & Ecology* **34**(3): 967-970.
24. Das, S., Mallick, R.B. and Pal, D. 2015. Effect of Weed Management on Productivity of Blackgram in the Gangetic Alluvial Soils of West Bengal. *Indian Agriculturist* **59**(2): 135-139.

**b) Books/ book chapters :**

1. Mallick, R.B. 2012. JUTE AGRONOMY in Jute development :Interface between Tradition and Modernity Edited by D. Dasgupta Pub.M/S AGROBIOS(India)
2. Sarkar, R.K. and Mallick, R.B. 2009. Sugarcane Biology in Sugarcane Development: Technological Interface between Tradition and Modernity. Ed. D. Dasgupta. Pp. 1-359.
3. Mallick, R.B. 2009. Weed management in field crops in *Tista Parer Krishi*; SATSA publication.

4. Chowdhury, A., Bhowmick, M.K., Biswas, P.K., Mallick, R.B., and Pradhan, S. 2009. Management, economic impacts and biology. Ed. Rudolph V., Kingely Nova Science Publishers inc. Pp. 135-179.  
R.B.Mallick.and Nilanjan Deb.1998. *Kone sar katota deben In Bengali* published by Krishi Vignan Kendra, Sriniketan, Visva Bharati

c) *Conference/ seminar volumes:*

Sl. No.	Title of the Paper Presented	Title of Conference / Seminar	Organized by
1	Weed management in black gram in Gangetic alluvial soil of West Bengal	“Emerging Challenges and Steps for Mitigation of Productivity Constraints in Food Legumes” on November, 20, 2010.	AICRP on Groundnut at Farmers’ Training Centre, Bidhan Chandra Krishi Viswavidyalaya (BCKV), Mohanpur, West Bengal,
2	Effect of foliar nutrients on productivity and seed quality of wheat under Gangetic alluvial soil of West Bengal.	International Symposium on “System Intensification towards Food & Environmental Security” February, 24-27, 2011	Crop and weed Science Society (CWSS), Bidhan Chandra Krishi Viswavidyalaya (BCKV), Mohanpur, West Bengal, India
3	Participated <b>As Raporteur</b> in the National Seminar.	National Seminar on Integrated Rural Development and Management: Issues, Strategies and Policy options on 17-18, December, 2011	Ramakrishna Mission Vivekananda University, Kolkata, India.
4	Effect of different nutrient levels and weed management practices in hybrid rice ( <i>Oryza sativa</i> ) under red lateritic zone of West Bengal.	National Symposium on “Approaches to Maximizing Crop Productivity”	The Agricultural Society of India in Collaboration with Institute of Agricultural Science & Alumni Association of Institute of Agricultural Sciences held on January, 12-14, 2012.

5.	Effect of foliar nutrients on growth and productivity of blackgram in the lower Gangetic alluvial region of West Bengal	National Symposium on “In Quest of a Second Green Revolution”	The Agricultural Society of India in Collaboration with Institute of Agricultural Science & Alumni Association of Institute of Agricultural Sciences held on February , 26-28, 2013.
6.	Weed Management in transplanted rice with low doses of sulfonylurea herbicide in summer season in lower gangetic alluvial region of West Bengal	ARRW Golden Jubilee International Symposium on Sustainable Rice production and Livelihood Securities: Challenges and opportunities at CRRI, Cuttack	CRRI,Cuttack-6 ,Odisha March, 2-5, 2013
7	Soil Health and fertilizer Management	National Seminar on “Soil Health: Key to Sustainable Agriculture” (SHKSA), to be held at Community Hall, Palli Siksha Bhavana, Visva-Bharati, Sriniketan on 14 November, 2015,	Soil Science & Agricultural Chemistry, Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati Sriniketan – 731236, West Bengal
8	Effect of conservation agriculture practices and balanced fertilization on system productivity, nutrient use efficiency and economics in maize ( <i>Zea mays</i> L.)- horsegram ( <i>Macrotyloma uniflorum</i> L.) cropping sequence in rainfed Alfisols	National Seminar on “Sustainable Agriculture for Food Security and Better Environment”	Department of Agronomy, Bidhan Chandra Krishi Viswavidyalaya (BCKV), Kalyani, West Bengal, on December 17-18, 2015

9	<p>i. Weed management in black gram after rice in Gangetic alluvial soil of West Bengal</p> <p>ii. Effect of Integrated Nutrient Management on rapeseed (<i>Brassica campestris var. yellow sarson</i>) <b>crop</b> in older alluvial soil West Bengal</p>	<p>National Seminar on “Resource Based Inclusive Agriculture &amp; Rural Development; Opportunities &amp; Challenges ”</p>	<p>Faculty Centre of Integrated Rural Development and Management</p> <p>Ramakrishna Mission Vivekananda University, Narendrapur</p>
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d) *Other publications :*

### Publications in proceedings

1. Mukhopadhyay, S.K. and Mallick, R.B. 1991. Metsulfuron, chlorimuron and tribenuron- low dose high efficiency herbicides for weed control in transplanted rice. Proc. 13<sup>th</sup> Asian Pacific Weed Science Society Jakarta, Indonesia, 15-18<sup>th</sup> October, pp. 157-163.
2. Mallick, R.B., Chakraborty, T. and De, A. 1995. Use of rock phosphate in rice for better productivity in acid soil. Proc. National Symposium in Sustainable Agriculture in Sub-humid Zones, 3-5<sup>th</sup> March, 1995, Palli Siksha Bhavana, Institute of Agriculture, Sriniketan, Visva Bharati Session-II pp 104-107.
3. Mukhopadhyay, S.K. and Mallick, R.B. 1995. Concept and dimension of sustainable agriculture. Proc. National Symposium in Sustainable Agriculture in Sub-humid Zones, 3-5<sup>th</sup> March, 1995, Palli Siksha Bhavana, Institute of Agriculture, Sriniketan, Visva Bharati Session-Ipp 1-4.
4. Chakraborty, T. and Mallick, R.B. 1995. Concept of sustainability in Agriculture under Indian context. Proc. National Symposium in Sustainable Agriculture in Sub-humid Zones, 3-5<sup>th</sup> March, 1995, Palli Siksha Bhavana, Institute of Agriculture, Sriniketan, Visva Bharati Session-Ipp 12-19.
5. Varadachari, C., Saha, P., Mallick, R.B. **2011**. Smart zinc fertilizer: Impact on crop yield and nutrient enrichment. Proc. International Symposium : ZincCrops - Zinc Fertilisers and Crop Nutrition. Hyderabad, India, 10-14 October 2011 Organised by International Fertilizer Industry Association (IFA)

### Membership of Learned Societies:

- i) Indian Society of Weed Science

- ii) Indian Society of Agronomy, New Delhi
- iii) Indian Society of Crops and Weed Sciences, Kalyani, WB
- iv) Agricultural Society of India, Calcutta.
- v) Indian Farmer Digest, G.B. Pant University of Agriculture & Technology
- vi) Association for Plant Breeding and Improvement.

**Invited lectures delivered:**

Sl. No.	Title of Lecture / Academic Session	Title of Conference / Seminar	Organized by
1 24.02.07.	Integrated Weed Management on summer paddy.	Integrated Pest Management on summer paddy	Agricultural Training Centre, R. K. Mission Ashram, Narendrapur, 24-Parganas(W.B.) in collaboration with Programme Coordinator (Assistant Director), Government of India, Central Integrated Pest Management, P-15, GARDENRICH ROAD, KOL-24.
2. 11.12.2007	Improved Package and Practices of Jute	District level Training Meeting of Agricultural Officer of South 24 Parganas District under Mini mission –II of Jute Technology Mission–SJDP-2009-10	Principal Agricultural Officer, South 24 Parganas District
3. 21.01.2008	Improved Production Technology and Package and Practices for Jute	District level Training Meeting under Mini mission –II of Jute Technology Mission –SJDP-2009-10	Deputy Director of Agriculture, Mursidabad district, Dept. of Agriculture, Govt. of W. Bengal.
4. 22.01.08.	Improved package of practices to increase productivity of jute.	District level Training Meeting under Mini mission –II of Jute Technology Mission –SJDP-2009-10	Principal, Agricultural Training Centre, Kalyani, Nadia
5.	Advance Technique on weed management of field	Farmers Training Programme	Principal, Agricultural Training Centre,

28.01.2008	crops with special emphasis to summer rice		Kalyani, Nadia
6. 13.3.2008	Boosting up of production and productivity of oilseeds.	Farmers Training Programme	Agricultural Development Officer, Kaligang Block
7. 04.02.2009.	Creating awareness for use of balanced chemical fertilizer.	Training Programme for farmers of Panskura II Block, East Midnapure	Convenor of FIAC & Agricultural Development Officer, Panskura II Block, Department of Agriculture, Govt. of West Bengal
8. 15.02.2009	Sasya Baichitrakaran	Sasya baichichitrakaran o Sampad Sanrakhane Adhunik Sech Prayuktir Samvabana on the Zilla krishi Mela,	Assistant Director Agriculture, Balurghat, Dakshin Dinajpur, Department of Agriculture, Govt. of West Bengal.
9. 04.09.2009.	Creating awareness for use of balanced fertiliser	Training Programme for farmers of Panskura II Block, East Midnapure	Assistant Director Agriculture, Panskura Block, Department of Agriculture, Govt. of West Bengal.
10. 11.09.2009	Acted as Resource person at Farmer Scientist Interaction Programme at Siliguri		Project Director, Agricultural Technology Management Agency, Siliguri and Assistant Director Agriculture (Admn.), Siliguri.
11. 10.01.2010.	Cultivation of rice by introduction of new technology like SRI, Drum Seeder	Zilla krishi Mela, at Balurghat, Dakshin Dinajpur.	Assistant Director Agriculture, Balurghat, Dakshin Dinajpur, Department of Agriculture, Govt. of West Bengal.
12. 24.02.2010.	Creating awareness for use of balanced fertiliser	Training Programme for farmers of Panskura II Block, East Midnapure	Assistant Director Agriculture, Panskura Block, Department of Agriculture, Govt. of West Bengal.
13. 3.03.2010.	Training Lecture on SRI/Drum seeded rice	Training Programme for farmers of Panskura II Block, East Midnapure	Assistant Director Agriculture, Panskura Block, Department of Agriculture, Govt. of West Bengal
14. 25.05.2010.	PRACKAGE AND PRACTICES OF jute cultivation among the District level Agricultural Officers of Birbhum	District level Training Meeting under Mini mission –II of Jute Technology Mission –SJD-2009-10	Deputy Director of Agriculture Birbhum, Department of Agriculture, Govt. of West Bengal.



	District.		
15. 12.01.2011	Potential rabi crops and their cultivation practices in Coastal degraded areas of Sunderban,	Farmers training programme under NAIP project at KRC of CIBA,Kakdwip_reg	Incharge Central Institute of Brackishwater Aquaculture (ICAR), Kakdwip, 24 Paraganas (South).
16. 12.09.2011.	Bio-intensive Farming: Concept, Feasibility & Prospect in West Bengal.	Bio-intensive Farming	Deputy Director of Agriculture (Training), Agriculture Training Centre, Chinsurah,
17. 21.01.2012	Weed Management in vegetable crop.	High Tech vegetable cultivation for uniform economic return	Centre for testing & training for providing technical back up to the beneficiaries for agricultural & horticultural development. Institute of Agricultural Science, University of Calcutta
18.	Promoting SRI & Weed Management in rice cultivation at Kolaghat Panchayet Samity Meeting Hall -	Training Programme for farmers of Panskura II Block, East Midnapure	Assistant Director Agriculture, Panskura Block, Department of Agriculture, Govt. of West Bengal
19. 27.06.2012	Weed Management in field crops	Farmers Scientist Interaction	Assistant Director Agriculture, Barasat-1 North 24 Paraganas, Department of Agriculture, Govt. of West Bengal.
20 24.07.2012.	Promoting SRI & Weed Management in rice cultivation at Kolaghat Panchayet Samity Meeting Hall -	Training Programme for farmers of Panskura II Block, East Midnapure	Assistant Director Agriculture, Panskura Block, Department of Agriculture, Govt. of West Bengal
21 20.12.12	Weed Management in boro paddy	Training Programme for farmers of Panskura II Block, East Midnapure	Assistant Director Agriculture, Panskura Block, Department of Agriculture, Govt. of West Bengal
22 30.04.13	Sorting out different problems in the field of agriculture and their possible remedies.	Farmers Scientist Interaction under ATMA program.	AGRICULTURAL TECHNOLOGY MANAGEMENT AGENCY(ATMA) South 24-Parganas, New administrative Building, 6th Floor, Alipur, Kolkata-27.
23 21.06.13	Weed Management in Direct seeded Rice (DSR) under Labour Productivity and Community Ecology Working Group Project (LPCEWG), IRRI,	Annul Workshop on Direct seeded Rice Technology.	IRDM Faculty Centre  RAMKRISHNA MISSION VIVEKANANDA UNIVERSITY ,  R. K. Mission Ashram, Narendrapur , 24-

	Philippines organized by R k MV University,		Parganas(W.B.)
24 19.12.13	Farmers training on different crops of agriculture	Training Programme for farmers of Khetrahat Samabay Samity	Assistant Director Agriculture, Panskura Block, Department of Agriculture, Govt. of West Bengal
25 10.01.14	Farmers Scientist Interaction in Mati Krishi Udyan Palan, Matsya O Prani Sampad Mela at Barasat-1Block North 24 Paraganas	Farmers Scientist Interaction	Assistant Director Agriculture, Barasat-1 North 24 Paraganas, Department of Agriculture, Govt. of West Bengal.
26 16.01.14	Farmers Scientist Interaction in Mati Krishi Udyan Palan, Matsya O Prani Sampad Mela at Deganga Block	Farmers Scientist Interaction at Sub Divisional Adaptive Research Farm, Deganga	Assistant Director Agriculture, Deganga Block, North 24 Paraganas, Department of Agriculture, Govt. of West Bengal.
27 3.4.14.	Importance of weed management of different crops.	Training programme for the Trainee on Diploma in Agricultural Extension Services for Input Dealers.	State Agricultural Management & Extension Training Institute and Agricultural Training Centre, R. K. Mission Ashram, Narendrapur, 24-Parganas(W.B.)
28 17.04.14.	Orientation about the Agro-state of the State and participants own district for the training programme	Training programme for the Trainee on Diploma in Agricultural Extension Services for Input Dealers.	State Agricultural Management & Extension Training Institute and Agricultural Training Centre, R. K. Mission Ashram, Narendrapur, 24-Parganas(W.B.)
29 18.04.14	Low Cost Technology and Marketing of Organic Agriculture	Four day long training for the member of Farmers Clubs under NABARD	RAMKRISHNA MISSION VIVEKANANDA UNIVERSITY Belur Math, Howrah, West Bengal
30 4&9.6.15	Weed Management of Kharif crop along with crop management practices	Training Progamme of Farm Tele Advisors (FTAs) of Kissan Call Centre, at SAMETI, West Bengal	State Agricultural Management & Extension Training Institute and Agricultural Training Centre, R. K. Mission Ashram, Narendrapur, 24-Parganas(W.B.)

31 19.6.15	Weed and Weed Management	Training Programmes of Pre-Service KPS Course at Agricultural Training Centre, R. K. Mission Ashram, Narendrapur, 24-Parganas(W.B.)	Agricultural Training Centre, R. K. Mission Ashram, Narendrapur, 24-Parganas(W.B.)
32 10.12.15	Integrated Weed Management on Oilseed crops in WB condition	Two days Officers/Extension/Work-ers training Meeting under NMOOP during 2015-16	Deputy Director of Agriculture, North 24 Paraganas, Department of Agriculture, Govt. of West Bengal.
33 23.01.16	Agronomy practice in potato crop	Season long Training Programme on Integrated Pest Management on Potato Crop	Assistant Director, Central Integrated Pest Management, Government of India, Central Integrated Pest Management, F. B. Block, Sector-III, Salt Lake KOL-700097.

### Other notable activities:

Involved in regular counseling and grooming of the student in their academic as well as coordinate other problems and guide them to choose their research / job carrier considering their aptitude.

i. Act as a Guest Lecturer Ramakrishna Mission Vivekananda University Narendrapur, South 24 Paraganas since November, 2006 till date.

ii) Acted as Advisor for the interview board constituted by the staff selection commission (ER), Kolkata for recruitment to the post of Sr. Technical Assistant for the Office of Directorate of Jute Development.

iii) Acted as Advisor for the interview board constituted by the State School Service commission (Southern Region), Kolkata for recruitment to the post of High SCHOOL TEACHER.

iv) An Expert for the Live (studio based) Phone – in- programmes on weed management in *aman* paddy as invited by Programme Executive,DDK/Kolkata, Prasar Bharati (Doordarshan **22.07.2014.**)

v) An Expert for the Live (studio based) Phone – in- programmes on weed management in *aman* paddy as invited by Programme Executive,DDK/Kolkata, Prasar Bharati (Doordarshan-----).

vi)Act as a Judge in Kolkata District Science Seminar -2014 held at BITM (BIRLA INDUSTRIAL AND TECHNOLOCAL MUSEUM) ON 19<sup>TH</sup> August,2014.(National Council of Science Museum, Ministry of Culture, Govt. of India)

vii) External Examiner, UG AND PG courses of Visva-Bharati; Bidhan Chandra Krishi Visvavidyalaya and Uttar Banga Krishi Visvavidyalaya, Coohbehar

- viii) External Examiner for Ph.D. THESIS NIIT, Durgapur
- ix) External Examiner, for Ph.D. THESIS, B.C.K.V
- x) Expert member of School Service Commission of West Bengal