

**Training Course
On
'Eco-Friendly Plant Protection Technology'**

25-29 November, 2018

Course Guideline



**National Agriculture Training Academy
Gazipur-1701**

Training Course
On
‘Eco-Friendly Plant Protection Technology’

25-29 November, 2018

Course Management

Course Director:

Director General (In charge)
National Agriculture Training Academy (NATA)
Gazipur-1701
☎ 9263298

Course Adviser:

Dr. Md. Abu Sayeed Miah
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National Agriculture Training Academy (NATA)
Gazipur-1701
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Course Co-ordinator:

Md. Jamal Uddin
Deputy Director (Entomology)
National Agriculture Training Academy (NATA)
Gazipur-1701
Cell : 01718214607

Assistant Course Co-ordinator

Md. Saiful Islam
Senior Assistant Director,
NATA, Gazipur.
Cell: 01710511175

Assistant Course Co-ordinator

Mst. Sharmin Akhter
Senior Assistant Director,
NATA, Gazipur.
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Introduction to National Agriculture Training Academy (NATA)

1.1 The Academy

National Agriculture Training Academy (NATA) is the apex training institute for human resource development of officers (grade-9 and above) under the Ministry of Agriculture (MoA) for providing training on diversified fields of professional interest in agriculture sector. The Academy organizes various training programs related to modern agricultural technologies and office management issues throughout the year. The academy is established in Gazipur as Central Extension Resources Development Institute (CERDI) on 14 March 1975 with the financial assistance of Japan International Cooperation Agency (JICA). Afterwards, on 27 June 1984, CERDI was undertaken to the Training Wing of Department of Agricultural Extension (DAE). On 03 April 2013, Government of the People's Republic of Bangladesh abolished CERDI and established NATA as an independent organization of MoA and on 07 June 2014, NATA has been started its journey as a training academy.

After emergence as NATA, the Academy began its training functions with only 10 faculty members. Though Government approved strength is 184, at present NATA has 84 staff members including 30 faculty members.

1.2 Vision

National Agriculture Training Academy becomes a center of excellence for developing competent human resources in agriculture sector.

1.3 Mission

We are pledged to achieve the shared vision through:

- i. Development of skilled human resources of all organizations under MoA by imparting quality training, research and development and publications;
- ii. Enhancement of linkage between education, research and extension to endow agriculture service delivery system;
- iii. Building a network with reputed institutions of home and abroad for organizational capacity development; and
- iv. Fostering a culture of continuous learning for development of knowledge-intensive agriculture service.

1.4 Functions

The NATA has been entrusted to perform the following functions:

- i. Develop skilled human resources of the government, semi-government, autonomous organizations under MoA through imparting training program on modern and sustainable agriculture technology and office management topics;
- ii. Transfer modern and sustainable agriculture technology developed by the research organizations for obtaining higher yield of crops of the farmers;
- iii. Conduct demonstration, adaptive research and research of proven technologies;
- iv. Impart all sorts of in-service training with special emphasis on induction, foundation and senior staff course;
- v. Exchange publications, participants and resource persons in seminars, workshops, conferences and training among the stakeholders;

- vi. Advise government and other organizations on training, achieving food and nutrition security, ICT, transfer of agriculture technology, agro-based industries and conservation environments etc.;
- vii. Help government and policy makers in framing and analyzing agricultural policies;
- viii. Conduct different training activities of academy in consonance with provision of the public administration training policy, 2003; and
- ix. Perform all kinds of duties directed by the government.

1.5 Location of the Academy

The Academy is about 25 km away from the capital city Dhaka and 3 km away from Joydevpur Chandana Chowrasta towards Gazipur district head quarter. It is located adjacent to Bangladesh Rice Research Institute (BRRI) and occupied 49 acres of land. The academy provides the trainees an ample scope to get free access to the adjacent institutions like Bangladesh Agriculture Research Institute (BARI), Bangladesh Rice Research Institute (BRRI), Seed Certification Agency (SCA), Bangabondhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Telecommunication College, and other government offices in Gazipur.

1.6 Facilities

1.6.1 Physical Facilities

The Academy is well equipped with some physical facilities to run the training programs successful though it began its voyage recently. Existing facilities of the academy are as follows.

- Office building-2
- Class room- 3
- Laboratory (Subject wise technical)
- Plant protection museum- 1
- Conference room- 1
- Auditorum-1
- Dormitory- 4
- Cafeteria- 1
- Greenhouse- 3
- Workshop-1
- Mosque-1

1.6.2. Digital Computer cum Language Lab. and IT facilities

There is one Digital Computer cum Language Lab in the Academy. It is located on the 1st floor of the Administrative building. IT facilities available include LAN and Wi-Fi and the whole campus under Wi-Fi coverage. To expedite foreign language learning, NATA set up a Digital Computer cum Language Lab. as part of the Academy's drive for capacity building of government officials. Participants can avail the opportunity of learning the foreign language while they stay in NATA.

1.6.3 Recreational Facilities

The Academy has a recreation room with color T.V in the dormitory. The daily newspapers are also available in recreation room for the participants.

1.6.4 Linkage with other Training Organizations

NATA maintains good relations with other training Academies in the country including BPATC, RPATC, BCS Administration Academy, BIAM, FIMA and so on. NATA has a plan to collaborate with international training institutes for improvement its human resources. NATA also collaborate with national research organizations for research in agriculture sector.

1.7 Evaluation

Course coordinator and asst. course coordinators are given the responsibility to evaluate the participants. The course is evaluated during pre and post training situation. Furthermore, the participants are given the chance to evaluate the resource speakers by using a prescribed format.

1.8 Sessions

Everyday the session is started at 9.00 am in the morning and ends at 5:00 pm in the afternoon. There are two health breaks started at 10.30 am for snacks and 03.30 pm for tea as well as lunch with prayer break at 01.05pm respectively. Participants are advised to attend in the class in time without fail for avoiding any kinds of disciplinary action.

Daily Schedule

Activities	Duration
Recap	09.00-09.15
1 st Session	09:15-10:30
Tea Break	10:30-11:00
2 nd Session	11:00-12:00
3 rd Session	12:05-01:05
Prayer & Lunch	01:05-02:10
4 th Session	02:15-03:30
Tea Break	03:30-04:00
5 th Session	04:00-05:00

1.9 Norms to be followed during the training

- No casual leave is allowed during training period;
- Participants living in the dormitory are advised to follow the norms of the dormitory;
- The campus area is a “Non Smoking Zone”. Participants are advised to refrain from smoking inside the Academy; and
- Participants are not allowed to enter the dormitory after 10:00pm at night.

Course at a glance

National Agriculture Training Academy (NATA) is the apex-training academy under the Ministry of Agriculture (MoA). NATA organizes training programs based on the needs of 16 organizations under the MoA. At present, Eco-friendly plant protection technology is crucial demand for DAE and other Research organization. To meet up the special needs of the personnel of different organizations under the MoA, NATA has designed this training course. This course will be equipped the participants with intellectual inputs and necessary skills which will be helpful for their organizations to perform Diseases and Insects eco-friendly management efficiently.

◆ Course Objective

The pests (Insects and Diseases) management of different crops relies heavily on toxic synthetic chemical pesticides. Indiscriminate application of toxic chemicals over the years in crop fields has resulted in many undesirable effects on human health, environment and overall sustainability of the farming systems. The increased public concerns about the adverse environmental effects and food safety associated with the use of synthetic agro-chemicals prompted search for the necessity of eco-friendly plant protection approaches to manage those destructive insects and diseases. So, the participants who working in the crop sector or agriculture related activities need to manage insects and diseases eco-friendly and this training will make them skill to identify different insects and diseases and eco-friendly strategies to protect crops.

◆ Target population: 9th & above grade officer under the Ministry of Agriculture.

◆ Duration of each session: 60 minutes.

◆ Prerequisites of the course:

- To attend in the training class in time;
- To be present at least 99% of the classes otherwise certificate may not be awarded;
- Maintain the norms in dormitory and cafeteria;
- Absent from any session is not allowed without prior permission from the course coordinator even in case of emergency;
- Enthusiastic to learn and share ideas in training session; and
- Cell phone must be kept in silent mode.

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Date: 25/11/2018

Day-01: Sunday

Time	Topic	Speaker
8.30-9.00	Registration	Sadiqunnahar (Lucky), Demonstrator (Lab.)
9.00-9.30	Pre-Evaluation Test	CC/ACC
9.30-10.00	Inaugural Ceremony	DG/Faculties / CC /ACC
10.00-11.00	Eco-friendly Plant Protection Technology in Bangladesh: An overview with special reference to pest management.	Dr. Md. MoinUs Salam International Consultant CIMMYT, Bangladesh Cell: 01855871938
11.00-11.20	Tea Break	
11.20 -12.20	Application of Eco-friendly approach in crop disease management in Bangladesh: An example in relation to lentil <i>Stemphylium</i> blight disease.	Dr. Md. MoinUs Salam International Consultant CIMMYT, Bangladesh Cell: 01855871938
12.25-1.25	An Orientation to the major insect pests and diseases of different crops (Visit pest museum).	Md. Jamal Uddin DD (Entomology), NATA, Gazipur Cell: 01718214607
1.25-2.30	Prayer & Lunch	
2.30-3.30	Major insect pests of Cucurbit, Cabbage, Cauliflower and Bean crops and their eco-friendly management.	Dr. Syed Nurul Alam CSO & Head Division of Entomology, BARI, Gazipur Cell: 01711907886
3.35-4.35	Major insect pests of Brinjal, Tomato, oil seed & pulse crops and their integrated management.	Dr. Syed Nurul Alam CSO & Head Division of Entomology, BARI, Gazipur Cell: 01711907886
4.35-5.00	Evening Tea	

☞ This Schedule is Subject to Change.

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Date: 26/11/2018

Day-02: Monday

Time	Topic	Speaker
9.00-9.15	Review of the previous day	Md. Saiful Islam Sr. AD, NATA
9.15-10.15	Major diseases of Mango, Jackfruit and Banana and their eco-friendly management.	Dr. Ashraf Uddin Ahammed PSO, Plant Pathology Division BARI, Gazipur. Cell: 01711117724
10.20-11.20	Major diseases of Guava, Papaya, Coconut and Litchi and their eco-friendly management.	Dr. Ashraf Uddin Ahammed PSO, Plant Pathology Division BARI, Gazipur. Cell: 01711117724
11.20-11.40	Tea Break	
11.45 -12.45	Introduction to insect pests of rice such as BPH, Rice bug, Rice hispa, Whorl maggot and Ear cutting caterpillar and their eco-friendly management.	Dr. Md. Shiekh Samiul Haque Head, Entomology Division, BRRI, Gazipur. Cell: 01715011351
12.50 -1.50	Major diseases of pulse and oil seed crops and their eco-friendly management	Dr. Md. Abu Sayeed Miah DG (In Charge),NATA, Gazipur, Cell : 01712024623
1.50 – 2.50	Prayer & Lunch	
2.50-3.35	Climate change and its effects on insect pest populations.	Prof. Dr.Md. Ruhul Amin, Dept. of Entomology, BSMRAU , Gazipur. Cell: 01711548416
3.40-4.25	Concept and principles of IPM. Adverse effect and residual effect of pesticides and its risk reduction	Prof. Dr.Md. Ruhul Amin, Dept. of Entomology, BSMRAU , Gazipur. Cell: 01711548416
4.30-5.15	Major insect pest of Jute, Cotton & Sugarcane and their eco-friendly management.	Dr. Selina Pervin PSO & Head, BSRI, Gazipur. Cell: 01716089694
5.15-5.30	Evening Tea	

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Date: 27/11/2018

Day-03 : Tuesday

Time	Topic	Speaker
9.00-9.15	Review of the previous day	Md. Saiful islam Sr. AD, (ACC) NATA, Gazipur
9.15-10.15	Major insect pests of mango, guava and litchi and their eco-friendly management.	Dr. Debasish Sarker PSO, Division of Entomology, BARI , Gazipur. Cell: 01712274933
10.20-11.20	Major insect pests of Banana, Papaya and jackfruit and their eco-friendly management.	Dr. Debasish Sarker PSO, Division of Entomology, BARI , Gazipur. Cell: 01712274933
11.20 -11.40	Tea Break	
11.45 -12.45	Major diseases of Cucurbits, Cabbage, Cauliflower and Bean and their eco-friendly management.	Dr. Md. Siddiqur Rahman SSO, BARI, Gazipur. Cell : 01711277230
12.50 -1.50	Major diseases of Wheat & Maize and their eco-friendly management.	Paritosh Kumar Malaker, PhD Ex-Director (Training & Communication Wing),BARI, Gazipur. Cell: 01716456674
1.50-2.50	Prayer & Lunch	
2.50-3.35	Major stored grain pests and their eco-friendly management system.	Jharna Begum Sr. AD, NATA, Gazipur. Cell: 01838091834
3.40-4.25	Briefly describe the life cycle, nature of damage and eco-friendly management of Rice Stem borer, Gall midge, Leaf folder and case worm.	Dr. Md. Abdul Mazed DD(LR), NATA, Gazipur. Cell: 01814849190
4.30-5.15	Digital documentation of insect pest and disease specimen and its use, preservation and presentation.	Md. Shahadat Hossain Siddique Sr. AD, NATA, Gazipur. Cell: 01753896598
5.15-5.30	Evening Tea	

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Date: 28/11/2018

Day-04 : Wednesday

Time	Topic	Speaker
9.00-9.15	Review of the previous day	Md. Jamal Uddin DD (Entomology) & CC NATA, Gazipur.
9.15-10.15	Diseases of Potato, Brinjal and Tomato & their eco-friendly management.	Dr. Md. Sayedur Rahman DD (Admin.), NATA, Gazipur. Cell: 01552495564
10.20 -11.20	Pesticide regulation and pesticide using pattern in Bangladesh. An impact analysis of pesticide use due to eco-friendly practices.	Kbd. Md. Rezaul Islam, DD (IPM), PPW, DAE, Khamarbari, Dhaka. Cell: 01700716204
11.20 -11.40	Tea Break	
11.45-12.45	Bio-ecology of rat and its integrated management practices.	Kbd. Md. Rezaul Islam , DD (IPM), PPW, DAE, Khamarbari, Dhaka. Cell: 01700716204
12.50 -1.50	Introduction to beneficial insects & pathogens and Biological control measures.	Dr. Md. Abdul Mazed DD (LR), NATA, Gazipur. Cell: 01814849190
1.50-2.50	Prayer & Lunch	
2.50-3.35	Major diseases of rice (Tungro, Ufra, Brown spot and False smut) and their eco-friendly management.	Dr. M.A. Latif CSO & Head (PlantPathology Division) BRRI.Gazipur. Cell: 01715034094
3.40-4.25	Major diseases of rice (Blast, BLB, Sheath blight and Sheath rot) and their eco-friendly management	Dr. M.A. Latif CSO & Head (PlantPathology Division) BRRI.Gazipur. Cell: 01715034094
4.30-5.00	Evening Tea	

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Date: 29/11/2018

Day-5 : Thursday

Time	Topic	Speaker
9.00-9.15	Review of the previous day.	Sharmin Akhter, Sr. AD & ACC NATA, Gazipur.
9.15-10.15	Safe use and handling of pesticides in fruits and vegetables.	Dr. Md. Sultan Ahmed, PSO, Division of Entomology, BARI, Gazipur, Cell : 01711242901
10.20-11.20	Type of pesticides, their mode of action and common pesticides using in Bangladesh.	Dr. Md. Sultan Ahmed, PSO, Division of Entomology, BARI, Gazipur, Cell : 01711242901
11.20 -11.40	Tea Break	
11.45 -12.45	Important diseases of Spices (Onion, Garlic, Ginger, Turmeric and Chili) and their eco-friendly management.	A H M Asadur Rahman Deputy Registrar, BSMRAU Gazipur. Cell : 01717645839
12.50 -1.50	Major diseases of Jute, Cotton & Sugarcane and their eco-friendly management.	Mst. Irin Parvin Sr. AD, NATA, Gazipur. Cell : 01727249448
1.50-2.50	Prayer & Lunch	
2.50-3.30	Augmentation and Conservation of Natural Enemy (N/E)	Dr. Md. Abdul Mazed DD (LR), NATA, Gazipur. Cell: 01814849190
3.30-4.10	Post-Evaluation Test	CC/ACC
4.15-4.45	Closing Ceremony with awarding certificate	DG/Faculties/Course Co-ordinator/ACC
4.45-5.00	Evening Tea	

☞ This Schedule is Subject to Change.

Course Co-ordinator

Md. Jamal Uddin
Deputy Director (Entomology)
NATA, Gazipur.
Cell : 0718214607

List of Resource Persons and Guest Speakers

SL. No.	NAME OF THE RESOURCE PERSONNEL	DESIGNATION	POSTING PLACE
1	Dr. Md. Ashik Iqbal Khan	Senior Scientific Officer	BRRI, Gazipur
2	Md. Jamal Uddin	Deputy Director (Entomology)	NATA, Gazipur Cell: 01718214607
3	Dr. Ashraf Uddin Ahammed	PSO, Plant Pathology Division	BARI, Gazipur. Cell: 01711117724
4	Dr. Md. Abdul Mazed	Deputy Director (LR)	NATA, Gazipur. Cell: 01814849190
5	Dr. Selina Akhter	PSO & Head	BSRI, Gazipur. Cell: 01716089694
6	Dr.Md. Ruhul Amin,	Professor Dept. of Entomology,	BSMRAU ,Gazipur. Cell: 01711548416
7	Dr. Debasish Sarker	PSO, Division of Entomology	BARI ,Gazipur. Cell: 01712274933
8	Dr. Selina Parvin	CSO & Head (Pathology)	BARI,Gazipur. Cell : 01916841302
9	Dr. Md. Siddiqur Rahman	Senior Scientific Officer	BARI, Gazipur. Cell : 01711277230
10	Md. Shahadat Hossain Siddique	Senior Assistant Director	NATA Gazipur. Cell: 01753896598
11	Dr. Md. Sultan Ahmed	PSO, Division of Entomology	BARI, Gazipur, Cell : 01711242901
12	Dr. M.A. Latif	CSO & Head (PlantPathology Division)	BRRI.Gazipur. Cell: 01715034094
13	Dr. Md. Sayedur Rahman	Deputy Director (Admin.)	NATA, Gazipur. Cell: 01552495564
14	Jharna Begum	Senior Assistant Director	NATA, Gazipur. Cell: 01838091834




Participants List

Sl. No.	NAME OF THE TRAINEE'S	DESIGNATION	POSTING PLACE
1	Pritish Chandra Paul	Agriculture Extension Officer	Upazila Agriculture Office, Chowhali, Shirajgonj
2	SharminaShamim	Agriculture Extension Officer	Upazila Agriculture Office, Fakirhat, Bagerhat
3	Mosaddiqur Rahman	Scientific Officer	BARI, Debigonj, Panchagarh
4	Md. Rofekuggaman	Agriculture Extension Officer	Upazila Agriculture Office, Sadar, Dinajpur,
5	Mahbuba Jamil	Agriculture Extension Officer	Upazila Agriculture Office, Satoria, Manikgonj
6	Mst. Rita Pervin	Instructor	Agriculture Training Institute, Shimultoli, Gazipur
7	Ayesha Akter	Instructor	Agriculture Training Institute, Shimultoli, Gazipur
8	Amina Khatun	Instructor	Agriculture Training Institute, Shimultoli, Gazipur
9	IffatKibria Al Nayeem	Agriculture Extension Officer	Upazila Agriculture Office, Baliadangi, Thakurgaon
10	MonirulHaqueRomel	Agriculture Extension Officer	Upazila Agriculture Office, Palash, Narshingdi
11	Muhammad Waliur Rahman	Scientific Officer	BSPC, BARI, Debigonj, Panchagarh
12	Fakhar Uddin Talukder	Scientific Officer	BJRI, Dhaka
13	Dr. Md. AbulKalam Al Azad	Principal Scientific Officer	BSRI, Ishurdi
14	Muhammad Quaikobad Khan	Senior Instructor	Agriculture Training Institute, Sherpur
15	Mohammad Nasir Uddin	Senior Assistant Director (Farm)	BADC, Gabtoli, Dhaka
16	A K M Moshir Rahman	Assistant Engineer	BMDA, Rangpur Zone
17	H.M. Syfullah Azad	Senior Scientific Officer	Cotton Research Farm, Sadarpur, Dinajpur
18	Md. Naimul Hassan	Scientific Officer	SRDI, District Office, Pabna
19	Taslima Yeasmin	Seed Analyst	SCA, Gazipur
20	Dr. Mst. TuhinaKhatun	Senior Scientific	BRRI, Gazipur
21	Lipiarakhatun	Scientific Officer	BRRI, Gazipur
22	Tanzila Rahman	Agriculture Extension Officer	Upazila Agriculture Office, Sadar, Gazipur
23	JannatulFarhouse	Scientific Officer	BINA, Mymensingh
24	K.M. EadunNabi	Scientific Officer	BINA, Mymensingh
25	HafshaKhatun	Senior Assistant Director	NATA, Gazipur

FACULTY MEMBERS of NATA

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	Abul Kalam Azad Senior Assistant Director (Farm Machinery and Water Management)	01940-652412 azadipm@gmail.com
	Jharna Begum Senior Assistant Director (Field Crop Pest)	01716-227489 jharna.kahaloo@gmail.com
	Md. Eskandar Hossain Senior Assistant Director (Vegetables & Spices)	01938-615225 eskandarhossain@yahoo.com
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	Md. Saiful Islam Senior Assistant Director (Horticulture Crop Disease)	01710511175 saiful.dae@gmail.com
	Tahazul Islam Senior Assistant Director (Cereal & Cash Crop)	01717-287940 tahazul@yahoo.com
	Sharmin Jui Senior Assistant Director (Biotechnology)	01670-709313 shrmn_jui@yahoo.com

	Hafsha Khatun Senior Assistant Director (Genetics & Plant Breeding)	01721-670789 hafshahappy@yahoo.com
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