

Curriculum Vitae



A. Personal Information

1. Name : **Bidhan Chandra Nath**
2. Father's name : Kamini Kumer Nath
3. Current Position : **Senior Scientific Officer**
4. Mailing address : Farm Machinery and Postharvest Technology Division
Bangladesh Rice Research Institute (BRRI)
Gazipur-1701, Bangladesh
Tel: +880-2-9294117-21, Ext. 413, 313 (Res)
Cell phone no.: 08801712580273
Fax: 0880-2-9261110
Email: bidhanbrri@gmail.com / bidhan_brri@yahoo.com
<http://www.brri.gov.bd>
5. Permanent address : Boishakhi Nibas
House# 438, Master para
Post Office: Maijdee Bazer
Police Station: Noakhali sadar
District: Noakhali-3800, Bangladesh
6. Marital status : Married
7. Sex : Male
8. Religion : Hindu
9. Nationality : Bangladeshi (by birth)
- 10 Type of business or sector : Research, Development and Extension

B. Research Interest

- Renewable Energy
- Agricultural Information System
- Remote Sensing for Crop Production
- Postharvest Technology/Value-added Processing
- Food security
- Agricultural Machinery Technologies and Design
- Conservation Agricultural
- Water Management

C. Educational Qualifications

Name of Collage/ University	Year of Passing	Degree/Certificate	Class/Grade	Marks Obtained (%)
Bangladesh Agricultural University (BAU)	2003	Master of Science (M S) in Farm Power & Machinery	Grade B+ (Upper Second Class)	60-70
Bangladesh Agricultural University (BAU)	1998 (Held in 2001)	Bachelor of Science (B Sc) in Agricultural Engineering	First Class	60.05
Comilla Victoria Government College, Comilla	1994	Higher Secondary Certificate (HSC) Science Group	Second Division	58.5
A M High School, Hatiya, Noakhali	1992	Secondary School Certificate (SSC) Science Group	First Division	77.5

Note: Course Work during M S to B Sc in Agricultural Engineering mention below

D. Language Proficiency

IELTS (*International English Testing System*) Score: **Over all band 6.0**

(Reading: 6.0, Listening: 6.0, Writing: 6.0 and Speaking: 5.5)

Mother Tongue: Bengali

Medium of Instruction: English (both in graduate and postgraduate level)

E. Employment Record

From 22 November, 2012 –to date: **Senior Scientific Officer**, Farm Machinery and Postharvest Technology Division, Bangladesh Rice Research Institute

Development and testing of agricultural machines and Postharvest processing technology of agricultural products; Development of renewable energy technologies and Popularizing BRRI developed farm machinery and post harvest technology.

From 12November,2007–21Nov,2012: **Scientific Officer**, Farm Machinery and Postharvest Technology Division, Bangladesh Rice Research Institute

To design, development and Modification paddy cultivation technology, Rice postharvest technology, and utilization of agro-residues technologies as well as non-conventional energy/renewable energy.

From May,2004- November, 2007 : **Instructor** (Farm Machinery) Technical School and College, Bangladesh Technical Education Directorate, Dhaka, Bangladesh

Teaching on vocational education system. Trainee of Basic Education and Agricultural Machinery use, operation & maintenance and rehabilitation.

From January, 2002-June.2003 : **Research Associate**, Bangladesh Agricultural University, funded by DFID through Research and Extension on Farm Power Issue (REFPI) Project.

To assist the Team in designing the questionnaires for field survey Planning Organizing and Coding the Questionnaires, Assist in checking verifying and editing data, Produce output tables and their analysis, Report Preparation on ground water and Shallow Tubewell.

F. Honor:

- IRRI Accredited Postharvest Trainer: Basic Level*
- International Board Member of “*Journal of AgriSearch*”**

*<http://www.knowledgebank.irri.org/rkb/training-materials-quality/postharvest-training-accreditation.html>

** www.jsure.org.in

G. Training

➤ Abroad training

Name of Program/Tropic	Year	Duration	Country	Organized by/ Institute
Global Postharvest Loss	2015	28 days	<i>On line</i>	ADM Institute for the Prevention

Prevention: Fundamentals, Technologies, and Actors				of Postharvest Loss and University of Illinois at Urbana-Champaign
Rice: Post-production to Market	2013	12 Days	Philippines	International Rice Research Institute (IRRI)
Training on Technical Course	2012	15 Days	Korea	Korea Institute for Development Strategy (KDS)
Joint Study Workshop	2012	Two (2) Months	Korea	Korea Institute for Development Strategy (KDS)
CADRA 2D Drawing	2012	5 Days	Korea	Korea Institute for Development Strategy (KDS)
Manufacturing, Testing and Standardization of Agricultural Machinery	2010	12 Days	India	Central Institute of Agricultural Engineering (CIAE)

➤ In Country training

Name of program/Tropic	Year	Duration	Place	Organized by/ Institute
Project Development and Management	2014	5 Days	Dhaka	Bangladesh Agricultural Research Council (BARC)
Use of Farm Machinery and Efficient Irrigation System Management	2014	5 Days	Gazipur	Bangladesh Agricultural Research Institute (BARI)
Foundation Training Course for NARS Scientists	2013	4 Months	Kotbari, Comilla	Bangladesh Academy for Rural Development (BARD)
Research Methodology	2010	14 Days	Mymensingh	Graduate Training Institute, Bangladesh Agricultural University
Use and Maintenance of ICT Network	2009	10 Days	Gazipur	Bangladesh Rice Research Institute (BRRI)
Breeder Seed Production and Preservation of Rice	2009	5 Days	Gazipur	Bangladesh Rice Research Institute (BRRI)
Energy Efficiency	2008	6 Days	Dhaka	Center for Energy Studies, BUET, and German Technical Co-operation (GTZ)
Hybrid Rice Development and Seed Production	2008	5 Days	Gazipur	Bangladesh Rice Research Institute (BRRI)
Irrigation Pump Operation & Maintenance	2006	5 Days	Mirpur, Dhaka	MAWTS Institute of Technology
Effective Conducting of Practical Classes in Farm Machinery	2004	15 Days	Bogra	Vocational Teachers Training Institute

H. Research Affiliations

- Bangladesh Agricultural University, Mymensingh-2202
- Osaka University, Japan
- Global Alliance for Improved Nutrition (GAIN), Geneva, Switzerland, a Swiss Foundation implemented project: as **working scientist** for "nutritious rice value chain" project.
- Korean International Cooperation Agency (KOICA) - Kyungpook National University (KNU), Korea funded Project: **Vice Project Manager** for "Research and Capacity Development of BRRI" project.
- International Rice Research Institute (IRRI) implemented project: **Scientist** for "Innovations Lab for Reduction of Postharvest Loss" project.

I. On-Going Research

Title (Project/Experiment)	Objectives
Design and development of a head feed power thresher	To develop a head feed thresher
Study the storage quality under different degree of milled	To find out the milled rice quality

rice	
Development of an integrated seed sowing machine	<ul style="list-style-type: none"> ▪ To develop an integrated sowing machine ▪ To test the performance and capacity
Study of biogas for farm machinery operations	To develop technologies for operation of farm machinery by biogas
Comparative performance of different types of mechanical dryer	<ul style="list-style-type: none"> ▪ To evaluate the performance of different types of mechanical dryer ▪ Modification of dryer as Bangladesh condition
Evaluation of strip tillage and bed planting to establish rice and maize in drought area of Bangladesh	To compare the agronomic performance of rice/Maize under different tillage options
Zinc fortification of whole rice grain through parboiling process	To investigate the feasibility of Zn fortification in parboiled rice

J. Research Experience:

(i) As Principal Investigator:

1. Mechanization status of crop harvesting in Bangladesh
2. Rice post harvest loss assessment in Gazipur district
3. Feasibility Study of Solar Photovoltaic (PV) Irrigation Pump
4. Evaluation of power operated Japanese/Korean/ Chinese rice transplanter
5. Storage of paddy seed in IRRI Super bags in Bangladesh condition
6. Determination of work efficiency of farm machinery

(ii) As Co-investigator:

1. Development and validation of BRRRI USG applicator
2. Demonstration of BRRRI developed machinery at farmer's field
3. Training on operations, repair and maintenance of BRRRI Machinery

K. Technology Developed

(i) As Principal Investigator:

1. Design and development of BRRRI Power chopper

(ii) As Co-Investigator

1. Design and Development of Dry and wet land weeder
2. Design and Development of USG applicator
3. Development and modification of a winnower
4. Design and development of a power operated jute ribboner
5. Design and development of power tiller operated field mower

L. List of Publications

➤ **Book**

Name: *Study on Agricultural Machinery for Bangladesh*

Chapter-II: Improve of Paddy Harvesting Mechanization System for Bangladesh

Part I: Mechanization status of Crop Harvesting

Part II: Postharvest Loss Assessment of Rice

Part III: Determination of Work Efficiency of Harvesting Machinery

➤ **Scientific Paper**

Full paper as Principal Author (03)

1. **Nath B.C.**, M.A. Hossen, Devjit Roy, M.A. Rahman and M.A. Hossain. (2009). “Design and Construction of Microlysimeters to Determine Evapotranspiration of Rice”. Journal of Agricultural Engineering, The Institution of Engineers, Bangladesh, Agricultural Engineering Division, Ramna, Dhaka. Vol.36/AE, June, 2009. pp 37-43.
2. **Nath B.C.**, M.A. Satter, M.T. Ahmed, Devjit Roy and AKM.S. Islam. (2009). “Performance of Direct and Standard Cooling Systems for Small Engine Used in Irrigation”. Bangladesh Rice Journal, BRRI, Gazipur, Vol.14, No.1&2, December 2008-June 2009, pp161-167.
3. **Nath B.C.**, M.A. Satter, M.A. Hossen, M.G. Mowla and M.M. Islam. (2008). “Comparative Study on Belt Pulley and Tyre Strip Coupling Systems for Centrifugal Pump”. Journal of Agricultural Engineering, The Institution of Engineers, Bangladesh, Agricultural Engineering Division, Ramna, Dhaka. Vol.35/AE, December, 2008. pp79-84.

Full paper as Co-author (20)

1. Hossen M. A., M.S. Islam, M. A. Rahman, M.D. Huda, M.G. K. Bhuyan, **B.C. Nath**. (2013). “Design and Development of a Manually Operated Urea Super Granule (USG) Applicator”, Agricultural Mechanization in Asia, Africa and Latin America (AMA), Vol. 44. No.2, Spring 2013, pp.85-91.
2. Hossain M. B., M. A. Hossain and **B. C. Nath**. (2013).”Feasibility Study of Motor and Engine Driven Open Drum Power Thresher”, Eco-friendly Agriculture Journal, Vol.6, No.5, pp83-92, May, 2013.
3. Hossen M. A., M.S. Islam, M.D. Huda, M.A. Zami, M.G. K. Bhuyan, **B.C. Nath**. (2011). “Desing and Development of a Weeder for both Lowland and Upland Conditions”. Agricultural Mechanization in Asia, Africa and Latin America (AMA), Vol. 42. No.2, Spring 2011, pp.56-62.
4. Alam Bodrul, Debjit Roy and **B. C. Nath**. 2010. “Effects of Different levels of Drip Irrigation and Mulching on the yield of Tomato”, Bangladesh Journal of Progressive Science and Technology, Vol.8, No.2, July 2010: pp 263-266.
5. Paul P.C, A. Khair and **B.C. Nath**. (2010). “Construct and Performance Evaluation of Foot Operated Diaphragm Pump for Low Lift Irrigation”. Bangladesh Journal of Progressive Science and Technology, Vol.8, No.1, pp075-078, January, 2010.
6. Saha R.C., M.Z.A. Vhutto, M.M. Islam, **B.C. Nath** and Debjit Roy.(2010). “Performance Study of an Engine Operated Mechanical Chopper”, Bangladesh Journal of Progressive Science and Technology, Vol.8, No.1, pp079-082, January, 2010.
7. Islam M.S., M.A. Haque, **B.C. Nath** and M.N. Islam. (2010). “Dehydration of Potato (Solanum tuberosum) to Produce Potato Flour”, The Agriculturists, A Scientific Journal of Krishi Foundation, Vol.8, No.1, pp115-123, August, 2010.
8. Debjit Roy, M.T. Islam and **B.C. Nath**. (2010). “Impact of Supplemental Irrigation Applied at Different Growth Stages of Transplanted Aman Rice (Oryza sativa)”, The Agriculturists, A Scientific Journal of Krishi Foundation, Vol.8, No.1, pp109-114, August, 2010.
9. Paul P.C., M.A. Khair and **B.C. Nath**. (2010). “Design and Development of Hand Cum Foot Operated Reciprocating Pump for Irrigation”, Bangladesh Journal of Training and Development, Graduate Training Institute, Bangladesh Agricultural University, Mymensingh, Vol.21-23, No. 1&2, pp183-192.
10. Rahman SMM., **B.C. Nath**, ATM.Z. Raihan, M. Kamruzzaman and M.R. Alam. (2010). “Development of a Deep-Placement Fertilizer Applicator”, International Journal of Bioresearch, Vol.8, No.1, pp17-22, January, 2010.
11. Monir M.M., M.S. Uddin, M.A. Haque, **B.C. Nath** and M.M. Islam. (2009). “Study on the Gluten Free Bread from Sweet Potato and Cassava Flour”, International Journal of Bioresearch, Vol. 6, No.3, pp37-42, March, 2009.

12. Akter M., M.D. Hossain, M.M. Islam, M.A. Haque and **B.C. Nath**, (2009). "Development of Chutney from Fresh and Dehydrated Ginger". *Eco-friendly Agriculture Journal*, Vol.2, No.2, pp368-391, February, 2009.
13. Hoseen M.A., M.J. Alam, G. Mowla, M. Kamruzzaman, **B.C. Nath**. (2008). "Multipurpose Use of RDA Developed Low-cost Deep Tube-well", *International Journal of Bioresearch*, Vol.5, No.1, pp12-16, July, 2008.
14. Hossain M.O., M. A. Satter, Debjit Roy and **B.C. Nath**. (2009). "Performance Evaluation of a Small Diesel Engine by Hydraulic Dynamometer", *Bangladesh Journal of Progressive Science and Technology*, Vol.7, No.2, pp191-194, July, 2009.
15. Roy Debjit, S.K. Akand, S. Rahman and **B.C. Nath**. (2009). "Development of Building Blocks Using Local Sand", *Bangladesh Journal of Progressive Science and Technology*, Vol.7, No.2, pp183-186, July, 2009.
16. Rahman M.A., M.S. Islam, SMM Rahman, AKM.S. Islam, **B.C. Nath** and M.G. Kibria. (2009). "Experimental Investigations of Drying Kinetics of Cabbage". *Journal of Agricultural Engineering, The Institution of Engineers, Ramna, Dhaka, Bangladesh*. Vol. 36/AE, June, 2009: pp69-76.
17. Akter M., **B.C. Nath**, M.D. Hossain, M.A. Haque and M.A. Rahman. (2009). "Development of Candy from Fresh and Dehydrated Ginger". *Journal of Agricultural Engineering, The Institution of Engineers, Ramna, Dhaka, Bangladesh*. Vol. 36/AE, June, 2009: pp77-84.
18. Hossain M.O., M.A. Satter, **B.C. Nath** and Debjit Roy. (2008). "Test Performance of Diesel Engine Suitable for Multipurpose Use as Prime Movers in Bangladesh", *Journal of Science and Technology*, Vol.6, pp67-74, June, 2008.
19. Alam M.R., M.M. Islam, **B.C. Nath** and M.B. Uddin. (2008). "Studies on Self-life of Some Traditional Sweetmeats Processed in Faridpur Districts". *Journal of Agricultural Engineering, The Institution of Engineers, Bangladesh, Agricultural Engineering Division, Ramna, Dhaka, Bangladesh*, Vol.35/AE, December, 2008.pp13-19.
20. Saha R.C., N. Muhury, M.A. Khair, M.A. Hossen and **B.C. Nath**. (2008). "Design and Construction of a Single Acting Diaphragm Pump for Low Lift Irrigation", *Eco-friendly Agriculture Journal*. Vol.1, No.5, pp264-269, December, 2008.

➤ **Proceedings (02)**

1. Azad A.K.M., **B.C. Nath**, R.C. Saha, B.K. Biswas and M.Z.A. Vhutto. (2008). "Experimental Studies on Preparation of Quick-Cooking Chickpeas (Cicer arietinum L.)", *Proceedings, Paper Meet*, 14 June, 2008, pp215-222. *Agricultural Engineering Division, The Institution of Engineers, Bangladesh*,
2. Alam M.J, M.A. Hoseen, **B.C. Nath**, G. Mowla, G.K. Bhuyan. (2008). "Performance Evaluation of RDA Developed low-cost Deep Tube Well", *Proceedings, Paper Meet*, 14 June, 2008, pp73-78, *Agricultural Engineering Division, The Institution of Engineers, Bangladesh*.

➤ **Seminar/ Workshop Paper**

- Nath B. C.**, Rahman M.A., S. Paul and AKM S Islam. (2013). "**An overview of rice storage scenario at Household Level in Bangladesh**", Paper presented at the workshop on "Improving Grain Storage System at Household Level for Food Security in Rural Areas of Bangladesh" held on 02 April 2013, organized by Centre on Integrated Rural Development for Asia and the Pacific (CIRDAP) at Dhaka.
- Chanda Debashish, M. A. Saleque, M A Rahman and **B C Nath**. (2013). "**Reducing post-harvest losses of rice by using hermetically sealed storage bags**", Paper presented at the workshop on "Improving Grain Storage System at Household Level for Food Security in Rural Areas of Bangladesh" held on 02 April 2013, organized by Centre on Integrated Rural Development for Asia and the Pacific (CIRDAP) at Dhaka.
- Rahman M.A., M.S. Islam; M.A. Hossen; **B.C. Nath** and S. Paul. (2010). "**Improved Processing Technology of Export Quality Aromatic Rice BRRI dhan50**", Paper presented in the International Exhibition & Seminar on Rice Processing Technology Organized by RICE TECH EXPO, Bangladesh at Basundhara Covention Center 2, Baridhara, Dhaka.

Hossen M.A., M.S. Islam, M.D. Huda, MGK Bhuiyan and **B.C. Nath** (2010). **Design and development of a manually operated fertilizer (USG/UMG) applicator**. Paper presented at the Thursday seminar at Bangladesh Rice Research Institute, Gazipur, on 25 February, 2010

SMM. Rahman; M.S. Islam; M.A. Rahman; M.A. Hossen and **B.C. Nath**. (2009). **“Rice Postharvest Situation and Strategy for the Reduction of Losses in Bangladesh”**, Paper for presentation at the workshop on "Reduction of Postharvest Agricultural Crops Losses" organized by Centre on Integrated Rural Development for Asia and the Pacific (CIRDAP) at Dhaka.

➤ **Booklets**

B.C. Nath, MA Rahman, AKM S. Islam, SPaul and MAA Mamun. (2011). Booklet on **Seedling Raising Technique for Rice Transplanter**, Farm Machinery and Post Harvest Technology Division, Bangladesh Rice Research institute, Gazipur, Bangladesh.

MA Rahman, T.K. Sarker, **B.C. Nath** and AKM Luftfor Rahman. (2012). Booklet on **BRRi developed Open Drum Thresher- Operation, repair and Maintenance**, Farm Machinery and Post Harvest Technology Division, Bangladesh Rice Research institute, Gazipur, Bangladesh.

➤ **Bulletins**

M.A. Rahman, **B.C. Nath**, M.A. Hossen, AKM S. Islam and S.Paul. (2011). **Brochure on Improved Processing Technology of Long Grain Aromatic Rice**. Farm Machinery and Postharvest Technology Division, Bangladesh Rice Research institute, Gazipur, Bangladesh.

M.S. Islam, SMM Rahman, MA Rahman, M.D. Huda, MA Quasem, AKM S. Islam, M Ahiduzzaman, MGK Bhuiyan, M.A. Hossen, M.Kamruzzam, T.K. Sarker and **B.C. Nath** (2009). **Brochure on BRRi Agricultural Machinery and Technology**. Farm Machinery and Post Harvest Technology Division, Bangladesh Rice Research institute, Gazipur, Bangladesh.

M. Project Preparation and Implementation

- Korean International Cooperation Agency (KOICA) funded project namely **“Development of Research Capacity of Bangladesh Rice Research Institute”**. (Project developed and executed)
- Govt. funded project **“Training on Operation, Repair and Maintenance of BRRi Farm Machinery”** (Project developed and executed)

N. Skilled in the following software operation

- ✓ Technical Drawing: AutoCAD, Photoshop
- ✓ Operating system: Win 98/2010, WinXp
- ✓ Office Application: MS PowerPoint, Excel, Word, Office XP
- ✓ Computer Language: C++, FORTRAN
- ✓ Internet: HTML, IP

O. Others Activity

Committee Member	Member of BRRi Technical Evaluation Committee : To specify and verification of tender documents of the laboratory equipment, computer and any other electronic and electrical instrument.
Collaboration with International Organization	IRRI (International Rice Research Institute), Korean International Cooperation Agency (KOICA), Global Alliance for Improved Nutrition (GAIN)
Collaboration with NGO/Farmers Community	PROSHIKA, Syngenta, IDE
Participated in Technology Development/Transfer as a	<ul style="list-style-type: none"> ▪ BRRi Weeder ▪ BRRi Rice Wheat Reaper

Co Investigator	<ul style="list-style-type: none"> ▪ BRRRI Rice Wheat Thresher (TH7) ▪ BRRRI Winnower ▪ BRRRI Open Drum (OD) Thresher ▪ BRRRI Seed Dryer/STR 1 Dryer ▪ Plastic and Metal Container for Seed storage ▪ Flat Bed Dryer
Paper Publication	<ul style="list-style-type: none"> ▪ Editor: <i>International Journal of BioResearch (ISSN 1819-8783)</i>. This journal monthly published in English. Original research papers and review articles related to agricultural and biological science are published in this journal. ▪ Editor Board Member: <i>Bangladesh Journal of Progressive Science and Technology (ISSN 1609-5260)</i>. This journal published in English half-yearly. All scientific research papers, review articles and short communications of all branches of science and technology are entertained in this journal. (http://www.bjpst.net)
Management and supervisory duties	<ul style="list-style-type: none"> ▪ Maintaining an independent office and office personnel at BRRRI-BARC project, FMTD project, KOICA project. ▪ Coordinating field level research including rice production, harvesting, threshing and storage activities from seed to seed specially paddy and wheat
Training experiences	<ul style="list-style-type: none"> ▪ Took part in training, prepared hand out, worked as a trainer of the manufacturers, operators, extension workers and farmers through the industrial and farmers' level extension of agricultural machinery and post harvest technology since joining at BRRRI. ▪ Served at different occasions as a Convener, Examiner, Interviewer of recruitment of Agricultural Engineers (Scientific Officer), Research Assistants, Mechanic, Computer operator and Driver in BRRRI
Public relations	<ul style="list-style-type: none"> ▪ Coordinated with the Head of division to arrange and conduct Seminars, Workshops and Exhibitions and other professional activities when necessary. ▪ Responsible for producing leaflet, poster, brochure of my division as well as for arranging advertisement in different newspaper, magazine etc

P. Professional Affiliations

- The Institution of Engineers, Bangladesh (**Life Fellow-11243**)
- Bangladesh Society of Agricultural Engineering (**LM-292**)
- Bangladesh Rice Research Institute Scientist's Association (BRRISA)
- KOICA Bangladesh Alumni Association (KBAA) (**M-999**)
- Krishibid Institution, Bangladesh (KIB) (**M-05-98-17119**)

Q. Referees

Dr. Md. Monjurul Alam Professor, Department of Farm Power and Machinery Bangladesh Agricultural University Maymensingh-2202, Bangladesh Email: mmalam.bau@gmail.com Mobile: + 8801752929024 Fax: +88-091-61510 http://www.bau.edu.bd	Dr. Md. Syedul Islam Ex. Director General Bangladesh Rice Research Institute Gazipur, Bangladesh Fax: 880-2-9261110 Mobile: + 8801712034435 Email: drmdsyedul@gmail.com msibri@yahoo.co.in http://www.brri.gov.bd	Dr. Md. Abdur Rahman Chief Scientific Officer and Head Farm Machinery and Postharvest Technology Division Bangladesh Rice Research Institute Gazipur, Bangladesh Fax: 880-2-9261110 Tel: 880-2-9257515 Mobile: + 8801714236911 Email: abraham42@yahoo.com
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R. Certification

I, the undersigned, certify that, to the best of my knowledge and belief, this bio-data correctly describes my qualifications, my experience and my-self. I understand that any willful miss-statement described herein may lead to my disqualification.

Bidhan Chandra Nath
Senior Scientific Officer

Course work during MS to B Sc Degree

Course	Major Subject
<i>Master of Science (M S) in Farm Power & Machinery (Agril. Engg.)</i>	
First Semester (January-June'2002)	Farm Machinery, Farm Power, Agril. Mechanization & Management, Engg. Math.
Second Semester (July-December'2002)	Agril. System Engg. , Soil Implnt. Mech., Agril. Process Engg., Instrumentation, Plant Protection Mach. & Equip.
Thesis Semester (January-June, 2003)	Thesis Title: A Study of the Cooling Effects on Shallow Tubewell Fuel Economy and Discharge in Field Condition
<i>Bachelor of Science (B Sc) in Agricultural Engineering</i>	
Part IV	Mecha. & Engg. Management, Agril. Mach. Design & Analy, Design of Concrete Structures, On Farm Water Mangnt, Aquaculture Engg., Food Process Engg & Quality Control, Ground Water & Wells, Refrign. A/C & Process Engg, Hydro. Mach. & Irri. Structure, Project Work & Reporting. Project Title: Design and Construction of Microlysimeters to Determine Evapotranspiration of Rice.
Part III	Agril. Mach. & Power Sources, Irri. & Drainage Engg., Soil & Water Conser. Engg., Surveying, Soil Mech. & Foundation Engg., Elect. Mach. & Rural Electrification, Agril. Statistics, Agril. Meteo. & Hydrology, Food Plant Engineering.
Part II	Mathematics, Engineering analysis, Computer Science, Engg. Thermodynamics, Elect. Engg. & Electronics, Fluid Mech. & Hydro., Strength of Material & Theo. of Stru, Fundamental of Food Engg., Agril. Extention, Elementary Economics
Part I	Engineering Shop, Engg. Mech & Kinetics, Engg. Materials & Estimation, Engineering Drawing {(a) Civil Drawing, (b) Mechanical Drawing}, Mathematics, Physics, Chemistry.