



CIAE

Central Institute of Agricultural Engineering Bhopal

Courses

1. Design, Testing and Production Technology of Agricultural Implements and Machinery.
2. Soybean Processing and Utilization
3. Machinery for Mechanization of Rice Cultivation.
4. Design & Testing of Irrigation & Drainage Equipment system
5. Equipment and Technology for Processing and Value-addition to Agricultural Produces at Small Scale/ Rural level.
6. Testing of Field Plot Machinery for Mechanization of Field research.

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The Central Institute of Agricultural Engineering (CIAE), one among the Indian Council of Agricultural Research (ICAR) family of institutes in the country, was established on Feb. 15, 1976. The CIAE is a premier institute in the country to conduct basic, applied and adaptive research leading to development of improved agricultural equipment, recipes and technologies. All the developments are meant for crop production, processing, use of energy in agriculture and for entrepreneurship development. The institute also acts as a nodal agency in the country for information /technology dissemination through display /demonstration of innovative products/technologies in fair, exhibition, in laboratory and field. Human resource development by organizing specialized training courses is also a major commitment of the institute in order to upgrade skills of artisans and update knowledge of engineers, subject matter specialists, manufacturers and policy planners engaged in promotion of farm mechanization in the country. The institute is spread on a campus of 94 ha farm with fully air conditioned international hostel (20 person); guest house (40 person) and one hostel (30 person) for accommodation. It has a strong workforce of 433 of which, 66 are scientist/ engineers and 194 technical staff. The disciplines represented are agricultural engineering, soil science, agronomy, plant protection, bio-chemistry, micro-biology, food sciences, mechanical engineering, electronics & instrumentation, computer application, statistics, economics and industrial management.

1. Design, Testing and Production Technology of Agricultural Implements and Machinery

Course Directors : Dr H S Biswas
Dr A C Saxena

Duration : Two weeks (April 6-18, 2009)

Course Fee : US \$ 1,250

No. of Trainees per course : 20

Boarding & Lodging: In International guest house at reasonable rates

Eligibility : Graduate in Agricultural / Mechanical Engineering or Diploma with five year relevant experience

Course Contents

Computer aided design; functional and structural design concepts; test codes and procedures; data analysis and results interpretation; manufacturing techniques; manufacturing process design; standardization and quality control; material selection and its characterization; re sourcing components and spares; intense hand on practice in lab; field / plant visits; country report presentation.



2. Soybean Processing & Utilization

Course Directors : Dr S D Kulkarni
Dr A P Gandhi
Dr L K Sinha

Duration : Two weeks (June 8-20, 2009)

Course Fee : US \$ 1,250

No. of Trainees per course : 10

Boarding & Lodging: In International guest house at reasonable rates

Eligibility : Graduate in Agricultural/ Mechanical Engineering/Food Technology/Home Science or Diploma with five year relevant experience

Course Contents

Nutritional importance of soybean; technology and processes for value addition; selection, installation and operation of value addition machines or plants; project profiling and economic viability; intense hand on practice in lab; field / plant visits; country report presentation.



3. Machinery for Mechanization of Rice Cultivation

- Course Director** : Dr V V Singh
Duration : 2 weeks (July 6-18, 2009)
Course fee : US \$ 1,250 per trainee
No. of trainees per course : 15
Boarding & Lodging: In International guest house at reasonable rates
Eligibility : Graduate in Agricultural/ Mechanical Engineering or Diploma with five year relevant experience

Course Contents

Characteristics of rice crop; sowing and planting requirement; nursery raising techniques; manual and automatic planters; harvesting machines; threshing machines; test codes and procedures; data analysis and results interpretation intense hand on practice in lab; field / plant visits; country report presentation



4. Design and Testing of Irrigation and Drainage Equipment System

- Course Director** : Er D M Bhandarkar
Duration : Two weeks August 17 -29, 2009
Course Fee : US \$ 1,250
No. of Trainees per course : 15
Boarding & Lodging: In International guest house at reasonable rates
Eligibility : Graduate in Agricultural / Mechanical Engineering/Civil or Diploma with five year relevant experience

Course Contents

Computer aided designing; design, installation and automation of lift irrigation, drip and sprinkler irrigation system; drainage technology and its equipment; water harvesting and recycling technique; test codes and procedures; computerized testing of drippers and centrifugal pumps; data analysis and results interpretation intense hand on practice in lab; field/ plant visits; country report presentation.



5. Equipment and Technology for Processing and Value-addition to Agricultural Produces at Small scale/Rural Level

Course Director	: Dr S D Deshpande
Duration	: 2 weeks (October 5-17, 2009)
Course fee	: US \$ 1,250 per trainee
No. of trainees per course	: 10
Eligibility	: Graduate in Agricultural/ Mechanical Engineering or Diploma with five year relevant experience

Course Contents

Technology/ equipment for cleaning and grading / decorticating / peeling /pearling, milling of cereals/ pulses/ oilseeds/ spices; election criteria, installation and maintenance of processing equipment for value addition; developing project reports and economic viability; intense hand on practice in lab; field / plant visits; country report presentation.



6. Testing of Field Plot machinery for Mechanization of Field Research

Course Director	: Dr V V Singh
Duration	: Two weeks November 2 -13, 2009
Course Fee	: US \$ 1,250
No. of Trainees per course	: 10
Boarding & Lodging:	In International guest house at reasonable rates
Eligibility	: Graduate in Agricultural / Mechanical Engineering or Diploma with five year relevant experience

Course Contents

Mechanization of field plot ; Operations required field plot mechanization; precision and pneumatic planters; plot threshers ; test codes and procedures; data analysis and results interpretation; intense hand on practice in lab; field / plant visits; country report presentation.

