TRAINING COURSES

CONTENT OF VARIOUS PROGRAMMES

PRODUCTION OF COMPRESSED STABILISED EARTH BLOCKS **One-week regular programme: 3 to 4 times a year**
6 days course with 4 sessions daily from 9.00 AM to 4.30 PM
- Video and slide show on earth architecture in the world - Building with earth in Auroville and particular earth techniques (Slide show) - Sustainability and environmental friendliness and management of resources (Slide show) - Basic data on CSEB – Raw material - Soil identification (field tests) and improvement principles - Soil stabilization principles and calculation - Block yard organisation – Quality control principles - Cost analysis & economic feasibility study - Production of compressed stabilised earth blocks (plain, interlocking and special)
Eligibility: architects or engineers, technicians or supervisors, masons or students
Minimum 15 people – Maximum 30 people

MASONRY WITH COMPRESSED STABILISED EARTH BLOCKS **One-week regular programme: 3 to 4 times a year**
6 days course with 4 sessions daily from 9.00 AM to 4.30 PM
- Particular earth techniques (Slide show) - Soil identification – Tests for mortar – Mortar quality - Bonds and design guidelines for CSEB - Building a basement, a plinth beam with U blocks and casting the plinth beam - Building interlocking walls - Building composite columns, lintels and beams with U blocks - Introduction to stabilised rammed earth foundations - Introduction to stabilised rammed earth walls - Introduction for building arches, vaults and domes (Slide show and practical exercises)
Eligibility: architects or engineers, technicians or supervisors, masons or students
Minimum 15 people – Maximum 30 people

THEORY OF ARCHES, VAULTS AND DOMES (AVD) **One-week regular programme: 3 times a year**
6 days course with 6 sessions daily from 8.30 AM to 7.30 PM
- Introduction, terminology, typology, diversity of AVD (Slide show) - Various details about AVD and basic structural principles, - Stability study with the catenary method - Stability study with the funicular method - Stability study with the optimisation method - Stability study of basic shapes - 8 case studies with slide shows - Designing AVD with the optimisation method
Eligibility: architects or engineers, technicians, students
Minimum 15 people – Maximum 30 people

BUILDING ARCHES, VAULTS AND DOMES (AVD) **One-week regular programme: 3 times a year**
6 days course with 5 sessions daily from 8.30 AM to 7.30 PM
- Principles for building AVD (Slide show) – Mortar quality - Building various typical arches of various span with centring (Bucket, Catenary, Corbelled, Pointed, Segmental, Semicircular) - Building various typical vaults without centring (catenary, segmental, semicircular) - Building various typical domes of 1.5 m span without centring (conical, cloister dome, on squinches, hemispherical, pointed, segmental) - Visit of building site with AVD construction
Eligibility: architects or engineers, technicians or supervisors, masons or students
Minimum 15 people – Maximum 30 people

PRODUCTION AND USE OF CSEB **One-week intensive regular programme: 2 to 3 times a year**
6 days course with 6 sessions daily from 8.30 AM to 7.30 PM
- Video and slide show on earth architecture in the world - Building with earth in Auroville and particular earth techniques (Slide show) - Sustainability and environmental friendliness and management of resources (Slide show) - Basic data on CSEB – Raw material - Soil identification (field tests) and improvement principles - Soil stabilization principles and calculation - Block yard organisation – Quality control principles - Cost analysis & economic feasibility study - Production of compressed stabilised earth blocks (plain and special) - Ramming a stabilized rammed earth foundation and wall - Mortar quality , block-laying & design guidelines - Building composite columns, lintels and beams with U blocks - Building a composite plinth beam with U blocks - Building with arches, vaults and domes (Slide show and practical exercises)
Eligibility: architects or engineers, technicians or supervisors, masons or students
Minimum 15 people – Maximum 30 people

PRODUCTION AND USE OF CSEB FOR EARTHQUAKE RESISTANCE **One-week intensive programme (scheduled upon request)**
6 days course with 6 sessions daily from 8.30 AM to 6.00 PM
- Video and slide show on earth architecture in the world - Building with earth in Auroville and particular earth techniques (Slide show) - Sustainability and environmental friendliness and management of resources (Slide show) - Basic data on CSEB – Raw material - Soil identification and improvement principles - Soil stabilization principles and calculation - Mortar quality and tests for mortar - Block laying & design guidelines for conventional buildings - Earthquake effects on buildings (Slides) – Design guidelines for earthquake resistance - Block yard organisation and quality control principles - Production of compressed stabilised earth blocks (plain and special) - Production of hollow interlocking compressed stabilised earth blocks (245 & 295 of various sizes) - Introduction to stabilised rammed earth foundations - Introduction to stabilised rammed earth walls - Building a plinth with plain and interlocking blocks – Casting a RCC plinth beam - Building interlocking walls 245 and 295 - Pre-casting composite lintels (Single height and double height) - Cost analysis & economic feasibility study - Case study on the earthquake resistant AUM house (Slide show)
Eligibility: architects or engineers, technicians or supervisors, masons or students
Minimum 15 people – Maximum 30 people

PRODUCTION OF CSEB FOR EARTHQUAKE RESISTANCE One-week programme (scheduled upon request)
6 days course with 6 sessions daily from 8.30 AM to 6.00 PM
- Video and slide show on earth architecture in the world - Building with earth in Auroville and particular earth techniques (Slide show) - Sustainability and environmental friendliness and management of resources (Slide show) - Basic data on CSEB – Raw material - Soil identification (field tests) and improvement principles - Soil stabilization principles and calculation - Blockyard organisation – Quality control principles - Cost analysis & economic feasibility study - Production of compressed stabilised earth blocks (plain and special) - Production of hollow interlocking compressed stabilised earth blocks (245 & 295 of various sizes & U blocks)
Eligibility: architects or engineers, technicians or supervisors, masons or students
Minimum 15 people – Maximum 30 people

MASONRY WITH CSEB FOR EARTHQUAKE RESISTANCE One-week programme (scheduled upon request)
6 days course with 6 sessions daily from 8.30 AM to 6.00 PM
- Earthquake effects on buildings (Slide show) - Basic design guidelines for CSEB – Basic design guidelines for earthquake resistance - Design guidelines with interlocking blocks - 2 Case studies on earthquake resistant houses with CSEB (Slide shows) - Ramming stabilised rammed earth foundations - Building a plinth with hollow interlocking blocks - Casting a RCC plinth beam in U blocks (hollow interlocking) - Building interlocking walls 245 - Building composite columns 240 and 290 - Pre-casting composite lintels (Single height and double height) - Introduction to building arches vaults and domes (Slides show) - Building arches
Eligibility: architects or engineers, technicians or supervisors, masons or students
Minimum 15 people – Maximum 30 people

AWARENESS PROGRAMME ON EARTH ARCHITECTURE Two-day awareness programme (scheduled upon request)
Course with 4 sessions daily from 9.00 AM to 4.30 PM
- Earth architecture (DVD) - Diversity and universality of earth architecture (Slide show on earth architecture in the world) - Sustainability and environmental friendliness – Management of resources (Slide show and lecture) - Basic data on CSEB – Raw material (lecture) - Building with earth in Auroville (Slide show) – Particular earth techniques (Slide show) - Sensitive analysis of soils (practical) - Production of compressed stabilised earth blocks (practical) - Ramming a stabilised rammed earth wall (practical) - Building with arches, vaults and domes (Slide show and practical exercises)
Eligibility: Students of all ages, students of architecture or professionals
Minimum 15 people – Maximum 30 people

AWARENESS PROGRAMME ON EARTH ARCHITECTURE Two-day awareness programme for children (scheduled upon request)
Course with 4 sessions daily from 9.00 AM to 4.30 PM
- Earth architecture (DVD) - Diversity and universality of earth architecture (Slide show on earth architecture in the world) - Sustainability and environmental friendliness – Management of resources (Slide show and lecture) - Building with earth in Auroville (Slide show) - Sensitive analysis of soils (practical) - Production of compressed stabilised earth blocks (practical) - Building arches (practical)
Eligibility: Students below 15 years old
Minimum 15 people – Maximum 30 people

AWARENESS PROGRAMME ON EARTH ARCHITECTURE One and a half-day awareness programme (scheduled upon request)
Course with 4 sessions the first day from 9.00 AM to 4.30 PM and 2 the second day morning
- Earth architecture (DVD) - Diversity and universality of earth architecture (Slide show on earth architecture in the world) - Sustainability and environmental friendliness (lecture) - Building with earth in Auroville (Slide show) – Particular earth techniques (Slide show) - Sensitive analysis of soils (practical) - Production of compressed stabilised earth blocks (practical) - Building arches (practical)
Eligibility: Students of all ages, students of architecture or professionals
Minimum 15 people – Maximum 30 people

AWARENESS PROGRAMME ON EARTH ARCHITECTURE One and a half-day awareness programme for children (scheduled upon request)
Course with 4 sessions the first day from 9.00 AM to 4.30 PM and 2 the second day morning
- Earth architecture (DVD) - Diversity and universality of earth architecture (Slide show on earth architecture in the world) - Sustainability and environmental friendliness (lecture) - Building with earth in Auroville (Slide show) – Management of resources (Slide show and lecture) - Sensitive analysis of soils (practical) - Production of compressed stabilised earth blocks (practical) - Building arches (practical)
Eligibility: Students below 15 years old
Minimum 15 people – Maximum 30 people

AWARENESS PROGRAMME ON EARTH ARCHITECTURE One-day awareness programme (scheduled upon request)
Course with 4 sessions from 9.00 AM to 4.30 PM
- Earth architecture (DVD) - Diversity and universality of earth architecture (Slide show on earth architecture in the world) - Sustainability and environmental friendliness - Building with earth in Auroville (Slide show) - Particular earth techniques and building with arches, vaults and domes (2 Slide shows) - Production of CSEB (practical)
Eligibility: Students of all ages, students of architecture or professionals
Minimum 15 people – Maximum 30 people

AWARENESS PROGRAMME ON EARTH ARCHITECTURE One-day awareness programme for children (scheduled upon request)
Course with 4 sessions from 9.00 AM to 4.30 PM
- Earth architecture (DVD) - Diversity and universality of earth architecture (Slide show on earth architecture in the world) - Sustainability and environmental friendliness - Building with earth in Auroville (Slide show) - Production of CSEB (practical) - Building with arches (practical)
Eligibility: Students below 15 years old
Minimum 15 people – Maximum 30 people

AWARENESS PROGRAMME ON EARTH ARCHITECTURE **Half-day awareness programme (scheduled upon request)**
Course with 3 sessions in the morning from 9.00 AM to 12.30 PM
- Video and slide show on earth architecture in the world - Building with earth in Auroville and particular earth techniques (Slide show) - Sustainability and environmental friendliness and management of resources (lecture) - Production of compressed earth blocks (practical)
Eligibility: Students of all ages, students of architecture or professionals
Minimum 15 people – Maximum 30 people

AWARENESS PROGRAMME ON EARTH ARCHITECTURE **Half-day awareness programme for children (scheduled upon request)**
Course with 3 sessions in the morning from 9.00 AM to 12.30 PM
- Diversity and universality of earth architecture (DVD on earth architecture in the world) - Sustainability and environmental friendliness – Building with earth in Auroville (Slide show) - Sensitive analysis of soils (practical) - Production of compressed stabilised earth blocks (practical) - Building arches (practical)
Eligibility: Students below 15 years old
Minimum 15 people – Maximum 30 people