EDUCATE Prize 2011
IEE Sustainability in Architectural Education
EDUCATE Prize 2011
International Student Award

The EDUCATE Prize is organized by the EDUCATE Consortium under the coordination of the Technische Universität München:

University of Nottingham, Department of Architecture and Built Environment (United Kingdom)

Architectural Association School of Architecture (United Kingdom)

Université catholique de Louvain, Architecture et Climat, Faculté LOCI (Belgium)

Technische Universität München, Fakultät für Architektur (Germany)

Università di Roma La Sapienza, Dipartimento DATA, Facoltà di Architettura (Italy)

Seminario de Arquitectura y Medioambiente, SAMA S.C. (Spain)

Budapesti Műszaki és Gazdaságtudományi Egyetem (Hungary)
INTRODUCTION

EDUCATE (Environmental Design in University Curricula and Architectural Training in Europe) is an Action funded by the European Commission (EACI) under the Intelligent Energy Europe Programme 2008. The mission of EDUCATE is to foster knowledge and skills in sustainable environmental design at all stages of architectural education, aiming to achieve comfort, delight, well-being and energy efficiency in new and existing buildings within a culturally, economically and socially viable design process.

EDUCATE is supported by the Chambers of Architects in six participating European countries, by internationally renowned building professionals in the field of sustainable architecture, by experts of cognate disciplines (e.g. education, engineering, information technology, ecology, etc.) and by associations of educators and practitioners throughout Europe. More information is available on: www.educate-sustainability.eu

In the context of the pedagogical and dissemination activities promoted by EDUCATE, an International Student Award - the EDUCATE Prize - is launched to reward the implementation of sustainability in the education of future generations of professionals of the built environment.

The Prize winning proposals will be selected from entries submitted under three different Categories, celebrating outstanding student work that creatively investigates and reflects on the various dimensions of sustainability in architecture and urban design, and rewarding innovative and original ideas and pedagogical methods in promoting sustainable principles and practices in curricula of higher education.

The Jury of the EDUCATE Prize will be composed by representative of participating European Chambers of Architects and professionals widely celebrated for their contribution to the theme of sustainability in architectural and urban design.
EDUCATE Prize TIMETABLE

Launch of the EDUCATE Prize                               14 July 2011
Submission of Questions                            14 July to 18 November 2011
Registration                                                14 July to 18 November 2011
Deadline for Digital Submission                December 09, 2011 (5pm CET)
Assessment Process                                December 2011- January 2012
Announcement of Results                     February 2012
Award Ceremony                                    February 2012
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PART I_EDUCATE Prize Objectives

1.1 Aims and Objectives

The EDUCATE Prize is an International Student Award that aims to celebrate the implementation of sustainability in the education of disciplines of the built environment and reward exempla of best practice in pedagogical methods and programme development.

The international character of the EDUCATE Prize, the free choice of the themes analysed by the submitted proposals and the diversification between different categories and levels of entry, have been arranged to reflect the flexibility, autonomy, individuality, cultural diversity and innovation of approaches that characterise contemporary architectural education.

The Prize is also an opportunity for the partners of the EDUCATE project and the supporting Chambers of Architects to disseminate the utilisation of the EDUCATE Knowledge Base to academic and professional institutions so as to foster the promotion of sustainability in the education and practice of architecture.

1.2 Eligibility

Academic members of staff (full-time or part-time) from Faculties, Schools and Departments of Architecture (or related discipline) worldwide are eligible to register their module, course or design studio unit for participation to the EDUCATE Prize.

Selected entries to the EDUCATE Prize will be submitted by representative academic members of staff on behalf of their students under 3 different Categories. Each registered academic member of staff is allowed to submit max. 1 entry under each Prize Category.

Categories I and II will reward student work that creatively investigates and reflects on the implementation of themes of sustainability in architectural and urban design studio projects. Through innovative solutions, the winning design projects will have to deal with social, ecological and economic aspects of sustainability – in minimum one dimension – so as to improve the quality of life of building occupants and reduce the impacts on the environment.
Winning proposals - of any building typology - will be characterised by high architectural design quality and resolution. Categories I and II will reflect the different knowledge, skill and competence expected of students respectively at their first (Category I: Bachelor Degree, Year 1-3), and second and third level (Category II: Diploma and Master Degrees, Year 4-6) of higher education.

Category III will reward student work that deals in an original and innovative way with themes of sustainability - in minimum one dimension - in a format different from the traditional design studio project. Entries for Category III will be presented in a format freely chosen by the author(s) and could include videos, short essays, artwork, etc. Submission to Category III is eligible from academic members of staff on behalf of students at any level of their higher education.

Participation to the EDUCATE Prize from academic institutions partner of the EDUCATE Consortium will be limited to max. 1 entry under each Category.
1.3 EDUCATE Knowledge Base

Academic members of staff registering to the EDUCATE Prize will receive login details for themselves and their students to gain immediate privileged access to the online EDUCATE Knowledge Base.

The EDUCATE Knowledge Base - one of the main components of the EDUCATE Portal - is an interactive platform created to foster the open transfer of information, know-how, expertise and methodologies of sustainable design, and reinforce an integrated approach to the embracement of sustainability in the education and practice of architecture and urban design. The construction of the online EDUCATE Knowledge Base is part of an ongoing process and new topics, case studies and tools are continuously added and updated by experts from the EDUCATE partners and in collaboration with academics, professionals and members of Chambers of Architects throughout Europe.

The EDUCATE Knowledge Base is structured into three main Parts:

• Issues & Principles
• Applications & Case Studies
• Tools

Each Part is further subdivided into Categories, Clusters and Topics. Each Topic is analysed under five different Tabs. A link to a video illustrating the various features of the EDUCATE Knowledge Base is available on the Prize webpage on www.educate-sustainability.eu/prize
Issues & Principles
The cognitive domain of Issues & Principles is organized in different spheres of knowledge that include basic principles and exempla of systems and solutions, addressing global sustainability challenges and their local expression in architectural and urban design. The knowledge featured in these spheres stems from physical, physiological and psychological notions related to the design of the built environment that can be employed to obtain comfort and quality of life for their occupants, for then analysing the strategies and technologies that guarantee a proper management of energy in architecture and urban design, whilst limiting impacts on the environment and promoting a sustainable utilisation of resources.

Applications & Case Studies
The cognitive domain of Applications & Case Studies is set to demonstrate how the principles and objectives of a sustainable approach to architectural and urban design can be translated into practice, and how such process of translation can support the activities and expectations of occupants. The analysis of case studies and field projects includes different building types and architectural typologies and encompasses exempla from contemporary practice as well as from vernacular and historical architecture.

Tools
The cognitive domain of Tools for design, research and performance studies includes generic and specific learning resources to support direct experiential exploration of design solutions, introduction to simulation/analysis software for calculation and visualisation of energy consumption or prediction of behaviour of built structures, and techniques to quantify performance of built structures and assess comfort of occupants within onsite measurements and analysis.
PART II_Conditions for Participation

2.1 Registration

Registration to the EDUCATE Prize is invited from academic members of staff (e.g. Professors, Associate Professors, Lecturers, Researchers, Full-time or Part-time Studio Tutors, Contracted Staff, etc.) from Faculties, Schools and Departments of Architecture (or related disciplines) worldwide.

Only staff members from recognised academic institutions are allowed to register to the EDUCATE Prize on behalf of their students. Affiliation to an academic institution as full-time or part-time academic member of staff is compulsory and will be verified upon registration. Registration from students and/or members of staff not affiliated to recognised academic institutions will not be considered as eligible.

To register to the EDUCATE Prize, academic members of staff are required to send a Registration Form via email to educate.prize@educate-sustainability.eu. The Registration Form is downloadable from the Prize webpage www.educate-sustainability.eu/prize. Details of the information requested are included in paragraph 2.9 of this Briefing Document.

Upon reception of the Registration Form, the Organizing Committee of the EDUCATE Prize will verify the eligibility of the registering academic member of staff and will forward to him/her a weblink from where individual users (e.g. tutors, students) can gain immediate privileged access to the EDUCATE Knowledge Base.

Following the registration, the academic member of staff will receive detailed information on the modalities for submission of the entry(ies) to the EDUCATE Prize.

Interested academic members of staff are invited to participate to the EDUCATE Prize, submitting entries on behalf of their students under 3 Categories.

Each registered academic member of staff is allowed to submit max. 1 entry for each Category of the Prize.

Preliminary selection of the entry to submit for each Category of the EDUCATE Prize is the unique responsibility of the registered academic member of staff.
2.2 Categories

Category I: Student Design Project (Year of study 1-3, Undergraduate Degrees)
In this Category, admitted proposals will be submitted by a representative member of staff from a recognised academic institution on behalf of individual (or groups of) students with design projects developed in design studios at the first level (e.g. Bachelor) of higher education (e.g. first, second and third year of the architectural curriculum). Design entries will have to deal with the field of architecture, urban design and/or planning or building renovation. Each registered academic member of staff is allowed to submit max. 1 entry under this Category.

Category II: Student Design Project (Year of study 4-6, Graduate and Postgraduate Degrees)
In this Category, admitted proposals will be submitted by a representative member of staff from a recognised academic institution on behalf of individual (or groups of) students with design projects developed in design studios at the second and third level (e.g. Diploma and/or Master) of higher education (e.g. fourth, fifth and sixth year of the architectural curriculum). Design entries will have to deal with the field of architecture, urban design and/or planning or building renovation. Each registered academic member of staff is allowed to submit max. 1 entry under this Category.

Category III: Open Student Work (all Years of study)
In this Category, admitted proposals will be submitted by a representative member of staff from a recognised academic institution on behalf of individual (or groups of) students. All non-building design projects can be submitted, including (but not limited to) short essays, movies, videos, artwork, etc., which deal with themes of sustainability in architecture, urban design and/or planning or building renovation in an original and innovative way. Each registered academic member of staff is allowed to submit max. 1 entry under this Category.
2.3 Submission Requirements

Category I and II

• Max. 2 Design Posters saved as PDF files, DIN A1 portrait format, featuring as an example (but not limited to):
  - Site plan at the appropriate scale of representation
  - Representative plans, sections and elevations at the appropriate scale of representation
  - Detailed plans, sections and elevations at the appropriate scale of representation with comments and/or
    information on materials, construction, technical systems, solar shading devices, etc.
  - Additional necessary graphical information (e.g. strategies, renders, calculations)
• Explanatory notes and/or statement by the author(s) (student) included in the design posters: max. 200 words
• Design brief/syllabus and synthetic description of the pedagogical process and/or methodologies utilised by the
  academic member of staff (max. 1 DIN A4 single sided, PDF file, minimum font size 11pt, single line)
• Short and incisive title

Design posters and brief must not contain any information about the author(s), the academic member of staff and their
home institution. The maximum file size for each submitted document and design board is 50MBytes.
Registration must be obtained by sending a registration request to educate.prize@educate-sustainability.eu

The design boards (Cat. I and II), the digital presentation (Cat. III) and accompanying brief will be uploaded on a dedicated EDUCATE Prize submission page under the responsibility of the registered academic member of staff. Each entry will only be identified by a code that will be automatically assigned at the moment of submission. Text and labels in all submitted documents and design boards must be in English.

Only submissions uploaded on the dedicated EDUCATE Prize submission page will be accepted. Submissions in any other format (e.g. via email, post, fax, etc.) or exceeding the requirements herein listed will not be considered eligible.

All digital entries must be provided in high resolution quality (300 dpi).

Category III

- One digital presentation (e.g. video, movie, short essay, collage of images, artwork, etc.)
- Brief/syllabus and synthetic description of the pedagogical process and/or methodologies applied by the academic member of staff (max. 1 DIN A4 single sided, PDF file, minimum font size 11pt, single line)

The digital presentation and brief must not contain any information about the author(s), the academic member of staff and their home institution. The maximum file size for each submitted document is as follows:

- Video or Short Movie (e.g. WMV, FLV, AVI, MOV, MPG, MPEG, MP4): max. 50MBytes
- Artwork (PDF): max. 50MBytes
- Short essay (PDF): max. 1,500 words and max. 50MBytes
- Any other digital document: max. 50MBytes

For all Categories

- Registration must be obtained by sending a registration request to educate.prize@educate-sustainability.eu
- The design boards (Cat. I and II), the digital presentation (Cat. III) and accompanying brief will be uploaded on a dedicated EDUCATE Prize submission page under the responsibility of the registered academic member of staff
- Each entry will only be identified by a code that will be automatically assigned at the moment of submission
- Text and labels in all submitted documents and design boards must be in English
- All digital entries must be provided in high resolution quality (300 dpi)
2.4 Jury

The Jury of the EDUCATE Prize will be constituted by representatives of the following Chambers of Architects:

- RIBA - Royal Institute of British Architects (United Kingdom)
- Conseil National de l’Ordre des Architectes de Belgique (Belgium)
- Bayerische Architektenkammer (Germany)
- Ordine degli Architetti, Pianificatori, Paesaggisti e Conservatori di Roma e Provincia (Italy)
- Consejo Superior de Colegios de Arquitectos de Espana (Spain)
- Magyar Epitesz Kamara (Hungary)

International Architects renowned for their contribution to the theme of sustainability in architectural and urban design will contribute to the assessment of the EDUCATE Prize, including:

- Peter Clegg - Feilden Clegg Bradley Studios (United Kingdom)
- Mario Cucinella - MCA Architects (Italy)
- Bill Gething - Bill Gething: Sustainability + Architecture (United Kingdom)
2.5 Organizing Committee

The assessment process for the EDUCATE Prize will be conducted under the supervision of the Organizing Committee coordinated by:

Technische Universität München
Fakultät für Architektur
Arcisstraße 21, D - 80333 München (Germany)

Laboratory for Integrated Design, Prof. Dipl.-Ing. Dietrich Fink
Dipl.-Ing. Barbara Hausmann

and

Department of Building Climatology and Building Service, Prof. Dr.-Ing. Gerhard Hausladen
Dipl.-Ing. Hana Riemer
2.6 Results and Awards

Winner (1st Prize)
The winner of each Category will receive a prize amounting to the equivalent of € 1,000 (including tax and costs for bank transfers) in the currency of the country of origin of the entry (at an exchange rate calculated on the date of the announcement of the results).

Runner-up (2nd Prize)
The runner-up (2nd Prize) of each Category will receive a prize amounting to the equivalent of € 500 (including tax and costs for bank transfers) in the currency of the country of origin of the entry (at an exchange rate calculated on the date of the announcement of the results).

Runner-up (3rd Prize)
The runner-up (3rd Prize) of each Category will receive a prize amounting to the equivalent of € 200 (including tax and costs for bank transfers) in the currency of the country of origin of the entry (at an exchange rate calculated on the date of the announcement of the results).

Honorary Mention(s)
The author(s) of the proposal(s) receiving a honorary mention under each Category will not receive a prize in money.

The Jury is authorized to change the distribution of the Prize money through unanimous vote.
The organizers undertake to pay the Prize money within 90 days from the date of announcement of the results.
2.7 Publication of Results

The organisers reserve the right to publish all the proposals submitted to the EDUCATE Prize.

The results of the EDUCATE Prize will be posted on a dedicated page on the EDUCATE website www.educate-sustainability.eu from February 2012. Projects will be exhibited or published under the names of their author(s), the representative academic member of staff and their home institution.

The EDUCATE Management Meeting and Symposium to be held in Rome (Italy) in February 2012 will host a public award ceremony where the results of the EDUCATE Prize will be presented, and the winners, runner-ups and honorary mentions will be announced and exhibited. The academic members of staff representing the shortlisted entries for each Category (winners, runner-ups and honorary mentions) will receive previous notification of their nomination.

Photographs of the award ceremony and a digital exhibition catalogue will be posted on the EDUCATE website www.educate-sustainability.eu from March 2012.

A dedicated page on the EDUCATE website www.educate-sustainability.eu will present updated information on the development of the EDUCATE Prize, including the program, FAQs, news and final results. The EDUCATE website also contains further information, documents, and results of the EDUCATE project.
2.8 Rights and Obligations

Insurance
The organizers are not liable to pay compensation for any loss or damage.

Ownership
All material received by the organizers becomes their property, including the rights of reproduction.
The intellectual property rights of each proposal and document submitted to the EDUCATE Prize remain the exclusive property of the author(s).

Moratorium on publication
Entry teams can not publish proposals submitted to the EDUCATE Prize or disclose their names by using their entries for any communication before the official announcement of the results.
Any such publication may result in exclusion from the EDUCATE Prize.

Disputes
Any dispute shall be heard by the EDUCATE Consortium, which is empowered to arbitrate.
2.9 Requirements for Registration

A Registration Form for the EDUCATE Prize can be downloaded from the webpage [www.educate-sustainability.eu/prize](http://www.educate-sustainability.eu/prize)

Alternatively, registration by an academic member of staff (e.g., Professor, Associate Professor, Lecturer, Researcher, Full-time or Part-time Studio Tutor, Contracted Staff, etc.) from Faculties, Schools and Departments of Architecture (or related discipline) can be made by sending a registration request to the email [educate.prize@educate-sustainability.eu](mailto:educate.prize@educate-sustainability.eu) including the following details:

- Title (e.g. Dr/Mr/Mrs, etc.)
- Full Name of the Academic Member of Staff
- Name of the Home Academic Institution (original name and name in English)
- Website of the Home Academic Institution
- Academic Role (e.g. Professor, Associate Professor, Lecturer, Researcher, Full-time or Part-time Studio Tutor, Contracted Staff)
- Contact Details (Telephone Number, Fax Number, Personal Work Email Address)
- Postal Address of the Home Academic Institution
- Name in English of the Module/Course/Design Studio Unit
- Level and Year of the Module/Course/Design Studio Unit
- Number of Students Enrolled in the Module/Course/Design Studio Unit

Affiliation to an academic institution as full-time or part-time academic member of staff is compulsory and will be verified upon registration.

For questions and further information on the EDUCATE Prize, please send an email to: [educate.prize@educate-sustainability.eu](mailto:educate.prize@educate-sustainability.eu)
PART III_Assessment Criteria

The EDUCATE Prize will be awarded to student work that creatively investigates and reflects on the various ramifications and dimensions of sustainability, including social, economic and environmental domains.

The assessment criteria will be primarily based on the technical and theoretical contents featured in the online EDUCATE Knowledge Base, to which all registered participants (academic members of staff and students) will be given privileged access. The pedagogical methods, teaching & learning processes and methodologies for supporting the design development utilised by the academic members of staff will also be highly regarded amongst the criteria for assessment. Capacity of critical reflection and awareness of sustainable mandates demonstrated by the author(s) of the entries will equally be valued by the Jury.

All participants are encouraged to access the EDUCATE Knowledge Base to help and support the design and development process of submitted proposals. The structure of the EDUCATE Knowledge Base offers different approaches to acquire knowledge, skills and competence of sustainable design (see pages 8 and 9 of this Briefing Document).

Further assessment criteria that could be utilised by the Jury in awarding the EDUCATE Prize under the three described Categories are listed and described hereafter.
### 3.1 Assessment Criteria_ Category I and II

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Main Possible Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Social</strong></td>
<td></td>
</tr>
<tr>
<td>A1 Quality of Urban Planning</td>
<td>treatment of existing structures and buildings, monument conservation</td>
</tr>
<tr>
<td>A2 Development and Mobility</td>
<td>local supply, parking, public transport, pedestrians, bicycle infrastructure, urban spatial design</td>
</tr>
<tr>
<td>A3 Quality of Design</td>
<td>facade, form, space design quality, comfort</td>
</tr>
<tr>
<td><strong>Economic</strong></td>
<td></td>
</tr>
<tr>
<td>B1 Functional Quality</td>
<td>conversion potential, space allocation planning, integration of technical equipment</td>
</tr>
<tr>
<td>B2 Investment Concept</td>
<td>amortization of investment, innovative funding ideas</td>
</tr>
<tr>
<td>B3 References for Local Economy</td>
<td>regionality of stakeholders and building techniques</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td></td>
</tr>
<tr>
<td>C1 Eco Efficiency</td>
<td>soil sealing, rain and grey water use, light pollution, sourcing of material</td>
</tr>
<tr>
<td>C2 Waste Management</td>
<td>reuse of elements or components, disposal management</td>
</tr>
<tr>
<td>C3 Energy Efficiency</td>
<td>climatic passive building design (summer, winter), comfort, air quality, daylighting, use of renewable energy, use of regional or local assets, detail quality</td>
</tr>
</tbody>
</table>

### 3.2 Assessment Criteria_ Category III

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Main Possible Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Social</strong></td>
<td></td>
</tr>
<tr>
<td>A1 Basic Conceptual Idea</td>
<td>innovation, cultural context integration, publication, public relevance, topic-performance relation</td>
</tr>
<tr>
<td>A2 Quality of Work concerning conventional design criteria</td>
<td>aesthetics, design, presentation, layout, performance, visual/acoustic effects</td>
</tr>
<tr>
<td>A3 Technical Performance</td>
<td>materials and method of creation used, choice of media</td>
</tr>
<tr>
<td><strong>Economic</strong></td>
<td></td>
</tr>
<tr>
<td>B1 Local Economy References and Initiatives</td>
<td>companies involved, regionalism, production, sourcing of materials and components, regional energy supply, marketing concept, integration of further initiatives, support of social infrastructure</td>
</tr>
<tr>
<td>B2 Labour, Materials and Construction Sources and References</td>
<td>EPD (Environmental Product Declaration), fair trade</td>
</tr>
<tr>
<td>B3 Investment Concept</td>
<td>amortization of investment, innovative funding ideas</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td></td>
</tr>
<tr>
<td>C1 Energy Efficiency</td>
<td>local climate, energy supply, energy production, energy management</td>
</tr>
<tr>
<td>C2 Eco Efficiency</td>
<td>space use efficiency, soil density, soil sealing, choice of location, rainwater use, grey water use</td>
</tr>
<tr>
<td>C3 Waste Management</td>
<td>reuse, reduction, recycling, disposal concept, integration of reused/recycled elements</td>
</tr>
</tbody>
</table>