

New Lighting Education Course Launched by ISLE

The lighting industry in India is about 9500 Crores growing at the rate of 12% CAGR a year and is expected to maintain this growth rate over the next decade. The growth of this industry has been accelerated as a result of the development of infrastructure, expansion of the transport horizon, exponential growth of middle class income and the upsurge of the real estate boom across India. At the same time the lighting industry has undergone a huge transformation in terms of technology upgradation, new product innovation, creative lighting design and new areas of application. In addition to this there has been a strong demand for conservation of energy and the need to reduce the carbon foot print to combat climate change.

In India lighting alone consumes 18% of the energy generated and the demand is increasing by leaps and bounds.

A recent study suggests that by the end of next decade more than 50% of lighting use will move from conventional lights to LED based lighting systems because of its energy efficient performance, and hassle free maintenance.

In order to meet this kind of growth in demand the lighting industry in all sectors will need a large number of professionals trained in lighting to back up the industry in the domain of R&D, QC, Production, and Design and technology adaptation. At the same time, there is a growing demand by specifiers such as architects, consultants, and city planners for lighting professionals.

Responding to this urgent need, ISLE has initiated the process of establishing an internationally recognised education course in Lighting across India as an integral part of its mandate, by signing an MOU with the Lighting Education Trust (LET) UK to promote lighting education in India. To start with this course has been implemented in Mewar University, a UGC approved engineering education establishment in Chittorgarh, Rajasthan.

The Indian Society of Lighting Engineers (ISLE) was founded in 1984 and is the apex Non-Profit body of lighting in India. With a wide ranging membership of practitioners in different areas of lighting, the Society is actively engaged in the promotion of the Science, Technology and the Art of Lighting.

ISLE is run by a professional Governing Body comprising eminent technical lighting experts working in the illumination engineering field.

ISLE is actively engaged in promoting education in the field of lighting and conservation of energy.

ISLE is a member of CIE, the highest international technical body of the lighting fraternity and has several other international affiliations as well.

Lighting Education Trust (LET) U.K is a charitable trust established for the purpose of overseeing and assisting in the funding of lighting Education at all levels, to develop syllabuses and course content, to accredit courses and to advance the overall standards of lighting practice. LET has several committees for the purpose of accreditation, lighting design etc with participation from its members.

LET collaborates with the Bartlett School of Graduate Studies, University College London, where the MSc in Light and Lighting is Europe's principal specialist graduate lighting course.

Also LET introduced in 2000 the LET Diploma in Lighting, a distance learning course delivered in the UK on behalf of the LET by London South Bank University. Both programmes are running successfully.

ISLE (Indian Society of Lighting Engineers) is the exclusive representative of LET, U.K. in India.

ISLE's Plan to promote Lighting Education in India - Initially ISLE plans to tie up with one Institute and evaluate the operation optimisation and then extend the implementation of the course in other parts of India in a phased manner.

The emphasis is to find partners with a long term commitment in this area rather than to increase the number of tie ups.

Career prospects of Students: For students who have completed their B.Sc or B.E. - Trainee officer positions in areas of R&D or Design or Production or Sales & Marketing in lighting companies.

Course Structure

- Light and Seeing
- Light Sources (including daylight)
- Windows and Luminaires
- Light Management
- Lighting Design Criteria for Interior and Exterior Application
- Interior Lighting Design Methods
- Exterior Lighting Design Methods
- Road Lighting
- Lighting of Buildings
- Lighting for Sports
- Area Lighting
- Design Calculation
- Lighting Software

Workshops: ISLE will conduct 4 one day workshops in a year covering the following:

- Interior Lighting
- Day Lighting
- Exterior Lighting
- Luminaire Design

Examination

- The exam will consist of 2 papers.
- Paper 1: Fundamentals
- Paper 2 : Advanced Lighting with sections as follows:
- Interior Lighting (Decorative and Commercial)
- Exterior Lighting (Flood Lighting and Road Lighting)
- Day Lighting
- Luminaires (Photometry and Luminaire design) and Light Sources.

Exam and Qualifying Marks:

- Fundamental Paper :25
- Advanced Paper: 50
- Workshop: 25.
- Total :100
- Students should achieve an overall weighted pass marks in excess of 50% and MUST achieve a minimum pass mark of 30% in each section.
- Examination and Certification:

The examination will be conducted in collaboration with ISLE technical professional assistance to the institute in terms of Question Paper, Workshop assessment, marking and the final evolution through a process mutually agreed between ISLE and the Education Institution in line with the procedure laid down by LET (UK).

On 29th August 2012 the ISLE-LET diploma course was launched at the main campus of Mewar University in Chittorgarh followed by a technical seminar. The following presentations were made:

- Past, Present and Future of the Lighting Industry by Mr. S. Chakraborty, Senior Vice President, Surya Roshni Limited.
- Is Street Light Pedestrian Friendly and Energy Efficient? by Mr. Bhavani Prasad, former Director General CPWD.
- LED and Lighting Concepts by Mr. Ravi AV, General Manager, Nichia Chemicals Limited.
- Façade Lighting by Mr. Raja Mukherjee, Country Manager, Cooper Lighting Limited.
- International and Indian Lighting Standards by Mr. P.K. Mukherjee, former DDG of Bureau of Indian Standards
- Lighting - Wellness and Human Health by Mr. Sudesh Gupta, Consultant.
- Phasing in Energy Efficient Lighting by Mr. R. Suresh, General Manager, ELCOMA.

The seminar was highly appreciated with the attendance of 200 people. The course commenced on 3rd October 2012.

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Note: For further information on the course Contact:

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