

## ❖ Training and consultancy

India academic environment has sustained active research and skill development in traditional domains of optics and material science. Jampot photonics as R&D company playing a significant role in taking interdisciplinary domain of photonics to every school, colleges and universities through seminars and hands on workshop by using Photonics mobile Laboratory. These workshops have been customized specifically for higher secondary schools, UG/PG engineering, Science and medical colleges. Jampot Photonics as development company provides consultancy in establishment of customized Optics and Photonics laboratories for schools, colleges and industries.



## Personal Photonics Mini Laboratory

The concept of personal photonics mini laboratory is to have required set off hardware tools, optical & electronic measuring equipment's along with optical components, electronic components, controllers, cameras and fiber optic modules. So that each and every participant can have the freedom to explore, experiment and innovate with light. This Personal Mini Laboratory will be property of the participant.

## ❖ Collaborative technology transfer

The semiconductor fabrication industry has not been successfully developed in last 4 decades in India. This gives Jampot Photonics an opportunity to collaborate with European, American, Korean and Japanese companies to share intellectual property and enables through licensing to produce high end commercial products to be manufactured and marketed in Indian market. This provides the initial breakthrough for Jampot Photonics to acquire and equip itself in realizing the long term vision of creating a "Photonics Cluster" in India. This cluster would be totally indigenized for Indian market and would provide a platform for academics, scientist and commercial entities to co-operate, collaborate and innovate under single umbrella to take India as one of the world leader in Photonics technology.

Feel free to contact for any discussion on light :

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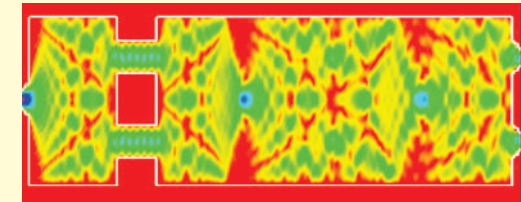
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**Photonic Integrated Circuits**  
**Opto Electronics**  
**Ray Optics**  
**Non-Linear Optics**  
**Embedded Photonics**  
**Fiber optic communication**  
**Silicon Photonics**

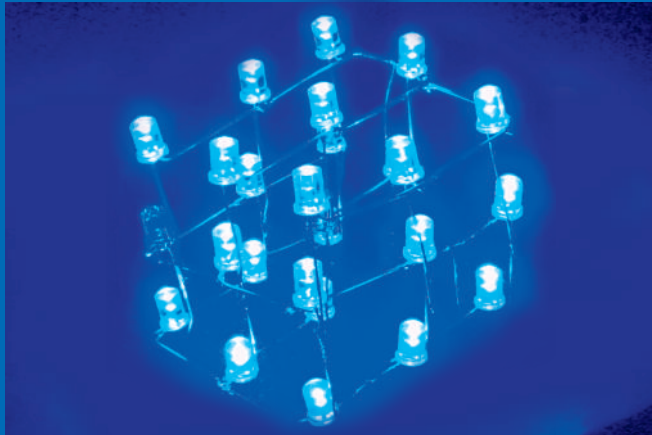


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## Photonics

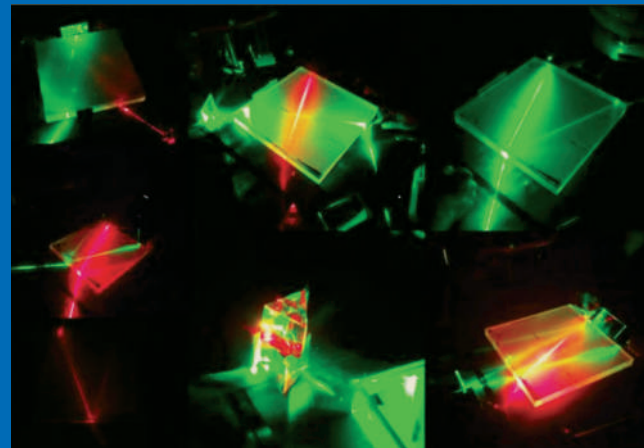
21st century is about convergence of Information technology, Biotechnology, Nanotechnology and Cognitive Technology. This remarkable convergence is based on the understanding of universe through basic sciences. Present day growth in Information and Communication Technology (ICT) has been possible only with breakthrough in electronics and microelectronics. The limitations associated with semiconducting materials for further miniaturization of electronic devices and limited bandwidth available for the information flow has led to innovations in using light as communication medium.



Photonics is the interdisciplinary discipline which is about generation, reception and manipulation of light to develop various applications. The integration of devices and components which generate, receive and manipulate light on a single substrate is photonic integrated circuits. Photonics as a technology envisages a future where information is completely stored, processed and communicated only using photon or to say using light as a single entity. Current technological innovations which have found application in everyday life have significant utilization of photonics such as :

- ❖ Photovoltaic solar energy
- ❖ Laser ( CD R/W, Remote controls)
- ❖ Biomedical Optics (Endoscopy, laparoscopy)
- ❖ LED lighting
- ❖ Display(LED & LCD's)
- ❖ Optical communication (Fiber optic)
- ❖ Optics(Spectroscopy, Microscopy/Telescope)
- ❖ Satellite (Intra communication system)

According to Photonics21, the European Photonics platform, the global photonics market is today around US\$500 billion, with an estimated annual growth of 8–10% until 2020. This market has many leading market players, but significant research and contribution come from 5000+ SMEs in Europe. The world's photonics market is currently associating more than 300,000 people, mainly in SME's (more than 80%). Photonics is thus a relevant field for the developing countries like India, which can benefit from their relatively cost-effective work force. This is particularly relevant for India, that has a 1.2 billion people market to satisfy with photonics related technologies (LED's, healthcare technology, information technology, etc.).



## Jampot Photonics

Jampot Photonics is a research & development and knowledge sharing company established in 2014. Jampot Photonics as a company desires to play the leading role in creating awareness about photonics and to prepare strong foundation for photonics fabrication industry in India. India had missed semiconductor industry revolution in late 80s and 90s but with current efforts across different spectrum Jampot Photonics would facilitate in accelerating and establishment of Photonics as an industry. Jampot Photonics venture is into establishment of the first Photonics design house in India with long term vision to create World class Photonics cluster. Through collaborative research with National / International universities, research institutes and industries, company would progressively would contribute to development of photonics in India.

Jampot Photonics activities

### ❖ Photonics research

The broad areas of research includes Optoelectronics, Ray optics, Photonics Integrated circuits, Embedded photonics , Photovoltaic's and Bio-photonics. Jampot Photonics as a non-state player would immensely contribute in nonlinear optics, all optic communication systems, optical computing, nano optics, silicon photonics & convergence of technology on the basis of light as an entity.

### ❖ Photonics product development

India being middle income country requires low cost products especially in lighting , medical diagnostic instruments, digital consumer goods and analytic instruments. Jampot Photonics is in the process of developing such products specifically targeted for this specific market.