

# LICHTWERKSTATT | JENA

OPEN PHOTONICS MAKERSPACE

Register now:  
[anmeldung@lichtwerkstatt-jena.de](mailto:anmeldung@lichtwerkstatt-jena.de)

## workshop

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24  
OCT

17.00 – 20.00

### 3D Printing

BASIC

EN

You are interested in 3D printing and you want to know how a 3D printer works and what endless possibilities it offers for rapid prototyping? Then you are exactly right at our workshop! We are going to take you on a hands-on journey into the exciting 3D printing technology. First, you will get an overview of the different 3D printing processes and functions. In a second step you learn how to create and print your own basic 3D model. The 3D printers and the necessary software are provided. Bringing your own laptop for creating the 3D model is recommended.

## workshop

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07  
NOV

17.00 – 20.00

### Laser cutting

BASIC

EN

Laser cutting is a particularly useful technique for those who want to develop original designs and work on different materials precisely and quickly. Learn more about the variety of cuts or engravings in our workshop and find out how to use the laser cutter to create prototypes or customize products. After the introduction to the basics of laser cutting, you can implement your own ideas. The laser cutter and the materials for experimentation are provided to you. Bringing your own laptop is an advantage for developing your own pattern.

...for future events visit: [www.lichtwerkstatt-jena.de](http://www.lichtwerkstatt-jena.de)

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## lange nacht der wissenschaften

22  
NOV

18.00 – 00.00

### Deine Idee – Deine Werkstatt!

DE

Du bist neugierig und willst wissen, welche Möglichkeiten die **Lichtwerkstatt Jena** bietet? Dann komm zur »Langen Nacht der Wissenschaften« vorbei und erfahre, wie du Roboter mit Sensoren steuerst, Musik mit Licht überträgst oder mit Mikrocontrollern die Welt zum Leuchten bringst. Du bekommst natürlich auch die Gelegenheit Rapid Prototyping-Verfahren wie 3D-Druck oder Lasercutting kennenzulernen und auszuprobieren. Tausche dich mit anderen über ihre Erfahrungen aus und finde Anregungen für eigene Projekte. Unser Team steht dir bei allgemeinen und konkreten Fragen mit Rat und Tat zur Seite!

EN

## workshop

05  
DEC

17.00 – 20.00

### Python

BASIC

EN

Programming is not that difficult – with Python it certainly works! Python is a programming language with a clear syntax and good readability. It is intuitive and therefore well suited for beginners in programming. With Python you can develop your own little games, control your Raspberry Pi or even evaluate complex scientific data. In our workshop you will get a general introduction to programming with Python. Please bring your own laptop with you.