

# PHYSICS AT OXFORD UNIVERSITY OF OXFORD

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**Is Oxford University good for physics?** Oxford has one of the largest university physics departments in the UK, with an outstanding and very diverse research programme in six sub-departments: Astrophysics. Atmospheric, Oceanic and Planetary Physics. Atomic and Laser Physics.

**How hard is physics at Oxford?** The Oxford physics course is highly-mathematical. We expect that all students who are accepted to study physics at Oxford would be capable of achieving a Grade A in Further Maths A-level, even if they have not taken the exam.

**What is the acceptance rate for physics at Oxford?** It is no wonder why the Physics course at Oxford is competitive. The acceptance rate is just 11%. Hence, a small selection of applicants are successful in receiving an offer, and the application process is far from simple.

**Who was the famous physicist of Oxford University?** Theoretical physicist Stephen Hawking made several contributions to theoretical physics. The British-born physicist grew up in Oxford and became an undergraduate at Oxford university. His contributions as a scientist include his ability to explain the theory behind black holes and the concept of time travel.

**Is physics better at Cambridge or Oxford?** Choosing between Oxford University and Cambridge University for Physics as an international student depends on your learning style and research interests. Both universities are world-renowned for Physics, so a wrong choice is not really possible.

**What is the number 1 university for physics?**

**What is the hardest major in Oxford?** The hardest degree subjects are Aerospace Engineering, Law, Chartered Accountancy, Architecture, Chemistry, Medicine, Pharmacy, Psychology, Statistics, Nursing, Physics, Astrophysics, Biomedical Engineering, Astronomy, and Dentistry.

**What is Oxford ranked in physics?**

**How much does it cost to study physics at Oxford?**

**What is the hardest school to get into Oxford?** All Souls College All Souls is the most elusive Oxford College and it takes no undergraduate students. In order to get in, graduate and postgraduate students apply for examination fellowships through “the hardest exam in the world”.

**What is the easiest subject to get into Oxford?** Classics & Modern Language was one of only two courses at Oxford to see all offer holders accepted. This only tends to happen with courses that have very low application rates, which is certainly the case here.

**How many applicants does Oxford physics get?** In 2023, Oxford Physics received a total of 1672 applicants for places in Physics or Physics and Philosophy, an increase of 39 (2%) on the 2022 figures.

**Did Einstein ever go to Oxford?** Albert Einstein (1879–1955) was already internationally celebrated for his special and general theories of relativity when he was invited to Oxford in 1931.

**Did Stephen Hawking go to Oxford or Cambridge?** Hawking studied physics at University College, Oxford (B.A., 1962), and Trinity Hall, Cambridge (Ph.D., 1966). He was elected a research fellow at Gonville and Caius College at Cambridge. In the early 1960s Hawking contracted amyotrophic lateral sclerosis, an incurable degenerative neuromuscular disease.

**Is Oxford or Cambridge better?** Oxford University is the leader and is also ranked first in English Language and Literature, Geography, History, and Modern

Languages.

### **Wrestling with Moses: Jane Jacobs' Battle for New York City**

**Question:** Who was Jane Jacobs and what was her significance?

**Answer:** Jane Jacobs was a renowned urban activist and writer who challenged the dominant planning theories of her time. Her seminal work, "The Death and Life of Great American Cities," argued for the vitality of local neighborhoods and the importance of maintaining street-level diversity.

**Question:** Who was Robert Moses and what was his vision for New York City?

**Answer:** Robert Moses was a powerful city planner who controlled New York City's infrastructure for decades. His vision favored grand projects, such as massive highways and skyscrapers, that often displaced low-income residents.

**Question:** What was the conflict between Jacobs and Moses?

**Answer:** Jacobs argued that Moses's plans were destroying the city's social fabric and undermining the vitality of its neighborhoods. She fought against his plans for expressways that would cut through Greenwich Village and other historic districts.

**Question:** How did Jacobs' ideas shape urban planning?

**Answer:** Jacobs' work shifted the focus of urban planning away from large-scale projects and towards preserving the character of existing neighborhoods. Her ideas influenced planners and architects worldwide, leading to the development of more livable and sustainable cities.

**Question:** What is the legacy of Jane Jacobs and her battle against Robert Moses?

**Answer:** Jacobs' activism and writings continue to inspire urban activists and planners today. Her ideas remind us of the importance of community, diversity, and the role of local residents in shaping their city's future. The ongoing debate over New York City's development continues to grapple with the legacy of both Jacobs and Moses, influencing the decisions that will shape the city for generations to come.

**How to study engineering drawing easily?**

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**How can I practice engineering drawing?**

**Which software is best for engineering drawing?** Autodesk AutoCAD. A leader in the engineering software world, AutoCAD's reputation is built upon its robust features that cater to both 2D and 3D design and drafting. AutoCAD provides intuitive user interfaces, a wide array of drafting tools, detailed design visualization capabilities, and data extraction features.

**What are the 4 views of engineering drawing?**

**Why is engineering drawing difficult?** This indicates that the learning difficulties in engineering drawing can arise due to various factors, such as the complexity of spatial visualisation, technical terminology, and the need for precise measurements.

**What are the 4 basic drawing techniques?** By mastering sketching, shading, blending, and cross-hatching techniques, artists can create stunning pieces that convey depth, contrast, and texture.

**Is there an AI for engineering drawing?** Creating detailed engineering drawings, including dimensioning, annotation, and documentation, can be time-consuming and repetitive. AI can assist you in automating the generation of standardized drawings, reducing the manual effort required.

**What are the three most important parts of an engineering drawing?**

**How can I practice drawing at home?**

**What CAD program do most engineers use?** 1. AutoCAD. AutoCAD, which was made by Autodesk, has a long history as one of the first CAD platforms. It is widely used in many fields, especially architecture, engineering, and construction, because it is flexible, can do both 2D and 3D modelling, and has a huge selection of industry-specific tools.

**What is the number 1 drawing software?** Adobe Photoshop is the best drawing software for Windows devices overall. The digital art program sets an industry-standard for features and tools, including impressive AI work to lighten the load. Photoshop also works well combined with the likes of Adobe Illustrator and Adobe

Fresco.

**What is the best website for engineering drawing?** The Easy Choice for Technical Drawing Online SmartDraw helps you align and arrange everything perfectly.

**What is a CAD drawing called?** The terms computer-aided drafting (CAD) and computer-aided design and drafting (CADD) are also used. A 2D CAD drawing A 3D CAD model. Its use in designing electronic systems is known as electronic design automation (EDA).

**What are the 4 C's of engineering design?** Over time, it was determined that the framework was too long and complicated. To resolve this issue, four specific skills were deemed to be the most important. They became known as the “Four Cs” — critical thinking, communication, collaboration, and creativity.

**What is ISO drawing?** By Rose Barfield 6 min May 19, 2019. Isometric drawing is a particular drawing style where the angle between the x, y, and z axes are all  $120^\circ$ , and there is no perspective. An isometric drawing is a pictorial representation of an object in which all three dimensions are drawn at full scale.

**Can I be an engineer if I'm bad at drawing?** You'll have no need to be an artist and make realistic looking pencil sketches. To make engineering drawings you'll use CAD, like AutoCAD or other 2D and 3D software. It's useful to be able to make quick hand sketches to communicate ideas, but they don't have to be artistic.

**How to master engineering drawing?**

**Why do engineers make so many sketches?** Engineering drawings are used to communicate design concepts and design intent using a standardized pictorial language comprised of lines, shapes, and symbols. They are sophisticated technical drawings that provide details on the geometry, dimensions, materials, and tolerances of an object.

**What are the 5 P's of drawing?** By embracing the 5 P's of Drawing—Patience, Positive and Constructive People, Perseverance, Practicing, and Passion—you will embark on a transformative artistic journey.

## **What are the 5 rules of drawing?**

**What is the 4 8 8 method of drawing?** 5. Use the 4-8-8 method. Simplify your shape before putting in detail using one set of four lines and two sets of eight. The first four define the box and another eight cut away from it to find the basic proportion and gesture lines of the subject.

**What is the best software for engineering drawing?** ActCAD is an engineering drawing software used for both 2D and 3D drawings. It is made with IntelliCAD 8.4b which is the latest technology available at present.

**Is AI replacing engineers?** The widespread use and adoption of AI haven't made the need for engineers redundant, but has instead led to engineers being able to allocate their valuable time, resources, and focus on other tasks while using AI to solve or achieve the more tedious aspects of respective workflows, thus allowing engineers to become ...

**Which app is used for engineering drawing?** SmartDraw gives you the power to create engineering drawings of all kinds more easily and more affordably than any other engineering design software on the market.

**What is the triangle symbol in engineering drawing?** The surface roughness on a drawing is represented by inverted triangles. The basic symbol consists of two legs of unequal length inclined at approximately  $60^\circ$  to the line representing the considered surface. The symbol must be represented by a thin line. The value of roughness is added to the symbols.

**What is an engineer drawing called?** Engineering drawings are also called technical drawings, prints, blueprints or schematics. Engineers used to make these drawings by hand, but now they make drawings on CAD software.

**Is engineering drawing hard?** Engineering drawing may be about technical drawings but it is one of the toughest subjects, ask any engineering student and you will know.

## **How to improve engineering drawing skills?**

**How can I learn engineering fast?**

**What is the easiest engineering to study?** The easiest engineering degrees include civil engineering, environmental engineering, biological systems, engineering technology, computer engineering, industrial engineering, and general engineering.

**How can I practice drawing easily?**

**What are the three most important parts of an engineering drawing?**

**What is the fastest way to get better at drawing?**

**Do you need to be good at drawing for engineering?** Drawing is important within engineering because it helps other professionals to successfully complete a project to the correct specifications. This could be a company's manufacturing department or other engineers who are building the item.

**How do I teach myself engineering?**

**What is the hardest engineer to study?** A. The top 5 most difficult engineering courses in the world are nuclear engineering, chemical engineering, aerospace engineering, biomedical engineering and civil engineering.

**Why engineering is hard to learn?** Complex and Diverse Subjects: Engineering encompasses a wide range of disciplines, each with its own complexities. It requires a strong foundation in mathematics, physics, and other sciences, making it demanding academically. Problem-Solving: Engineers often need to solve complex, real-world problems.

**Which engineering has the highest salary?**

**What is the toughest branch of engineering in the world?**

**Which engineering is best in the world?**

**What is the best technique for drawing?**

**How many minutes should I practice drawing a day?** Not only does the time matter but the quality of practice also matters. Usually drawing for an hour gets you

into the flow. Drawing for two to four hours every day with complete focus and dedication will push you towards steady progress. Try to focus on learning more than trying to just reach a goal.

### **What is the easiest method of drawing?**

### **Understanding Pointers in C**

Pointers are variables that store the address of another variable. They are a fundamental concept in C programming and enable the manipulation of data at the memory level. Here are some key questions and answers about pointers in C:

**What is the syntax for declaring a pointer?** To declare a pointer, you use the asterisk (\*) operator followed by the data type of the variable it points to. For example, to declare a pointer to an integer, you would write:

```
int *ptr;
```

**How do you initialize a pointer?** Pointers can be initialized with the address of a variable using the & operator. For example, to initialize ptr to point to an integer variable named num, you would write:

```
ptr = &num;
```

**How do you dereference a pointer?** To access the value stored at the address pointed to by a pointer, you use the asterisk (\*) operator. For example, to access the value of the integer pointed to by ptr, you would write:

```
*ptr
```

**What is the difference between a pointer and an array?** Pointers and arrays are both used to access data in memory, but there are key differences between them. An array is a contiguous block of memory, while a pointer can be assigned to any memory location. Arrays have a fixed size, while pointers can be reassigned to point to different memory locations.

**When should you use pointers?** Pointers are useful in various situations, such as:

- Passing parameters by reference to functions



- Dynamic memory allocation and deallocation
- Working with structures and unions
- Manipulating strings efficiently

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