
Welcome

LDE UT6^{Form} PROSPECTUS



London
Design &
Engineering
UT6^{Form}

WELCOME to LDE UT6

At LDE UT6^{Form}, we understand your journey after GCSEs is a big step toward shaping your future. This is an exciting time to dive deeper into subjects you're passionate about and start building the skills that will open doors to higher education, apprenticeships, and careers. Our sixth form is designed to offer a balanced, rigorous curriculum that challenges our learners academically and aligns closely with industry demands.

As a technical and design-focused institution, we are dedicated to equipping our learners with the practical and theoretical expertise needed for high-demand careers in engineering, design, and technology. Our unique, employer-led approach connects learners with industry leaders, giving them invaluable insights and hands-on experiences that foster a work-ready mindset. Collaborations with top companies and exposure to real-world projects prepare our learners to thrive in professional environments and meet the expectations of today's dynamic workforce.

As Head of School, I'm incredibly proud to lead a community where everyone is given the chance to succeed. No matter where you're starting from, our team is here to support and inspire you every step of the way.



With our amazing staff, supportive partners, and connections to top employers, we're committed to helping you reach your goals and build a bright future through higher education, an apprenticeship, or stepping straight into a career.

Thank you for considering LDE UT6 as your pathway to success. I look forward to welcoming you to our community and helping you take the next step toward your future.

Victoria Webb, Head of School, LDE UT6^{Form}



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UTC VISION (USP)

Vision: Creating technology and employer-led education that enables learners to exceed their potential, celebrate diversity, and embrace the 4th industrial revolution.

ABOUT UTC's

UTCs are government-funded schools that offer **13–19-year-olds** a unique education in technical and scientific subjects, focusing on one or two **technical specialisms** and integrating **technical, practical, and academic learning**. They work with employers and local universities to develop and deliver their curriculum, and provide the latest equipment and technology used by industry. **UTCs are smaller than traditional secondary schools**, with around 600 learners, and aim to ensure a high level of technical aptitude and interest. UTCs dedicate at least **40% of time to the technical specialism**, including **design and building, working in teams and problem solving**.

LEARNING

At **LDE UT6^{Form}** we are dedicated to supporting our diverse community and preparing young people with the skills and values needed in a multicultural and ever-changing Britain. **Our six shared values**—passion, reaching higher, respect, care, ownership, and pride—guide our approach. We prioritise promoting **British values**, including **democracy, the rule of law, mutual respect, individual liberty, and tolerance of different faiths and beliefs**. As educators, we prioritize the well-being of our learners and ensure they are protected from intimidation and radicalisation.

EMPLOYERS

Employer, professional institutions, and educational partners play a **vital** role in **LDE UT6^{Form}**.

They provide project briefs, feedback, interview practice, masterclasses, guest speakers, contextual visits, and mentorship to learners. They also support learners in developing and marketing end products and provide careers advice.

CAREERS

Our careers programme aims to prepare learners for the world of work by providing opportunities, information, and guidance to increase confidence, build resilience, and raise aspirations.

We are committed to ensuring our learners take responsibility for their achievements, and we work closely with employers to fill the skills gap in industry.

Together, we can make a positive contribution to our young people's futures, helping them embrace the range of pathways available after leaving us with a strong academic and technical education.



Our Careers Leader is Janice Tricks, supported by our leadership team and directors.

You can contact Janice at careers@ldeutc.co.uk or via reception on: **0203 019 7333**

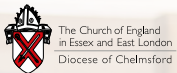


"I HAVE A PASSION FOR WORKING WITHIN CAREERS AND AM SKILLED IN COACHING AND POST 16 PROGRESSION, TO HELP OUR LEARNERS TO REACH THEIR POTENTIAL AND DESTINATION CHOICE. I ALSO ENJOY DEVELOPING BUSINESS RELATIONSHIPS TO ENGAGE WITHIN OUR CAREERS PROGRAMME AND CURRICULUM, TO SUPPORT LDE'S EMPLOYER-LED APPROACH."

Janice Tricks, Careers Lead

SPONSORS

Our Employer sponsors include:



SIXTH FORM (KS5)

At our inclusive college, our technical curriculum at KS5 includes Engineering Design, Mechatronics, Digital Media, Built Environment, and Craft & Design. For our A-Level/applied offer, we offer a range of subjects STEM based subjects including Mathematics and Further Mathematics, Biology, Computer Science and Art.

Entry requirements vary, but learners should have achieved at least a grade 4 in English and maths GCSE. Individual course requirements can be found on our website.

We also offer a 1-year foundation program for learners who are close to the entry requirements.

After GCSEs, learners will be invited to a meeting to discuss their options and have the opportunity to take taster lessons.

Y12 A LEVELS & APPLIED COURSES

- Art
- Biology
- Business
- Chemistry
- Computing Science
- Further Maths
- Mathematics
- Mathematical Studies
- Physics
- Product Design
- Psychology

Y12 COURSES AT LEVEL 2

- Combined course which includes, Digital Production, Craft and Design and Design and Surveying for Construction
- GCSE Maths retake
- GCSE English Language retake



T-LEVELS

T-Levels offer a unique pathway for learners seeking practical skills and industry-focused education.

What are T-Levels?

T-Levels are a new qualification in England, introduced to provide learners aged 16-19 with a technical education aligned with industry requirements. These two-year courses combine classroom learning with substantial on-the-job training, ensuring learners develop both theoretical knowledge and practical skills.

Purpose:

T-Levels aim to bridge the gap between education and employment by equipping learners with industry-specific skills. They are designed in collaboration with employers and professional bodies to meet the demands of various sectors, fostering direct pathways to employment or further study.

Structure:

T-Levels follow a structured curriculum, consisting of a core component, a specialisation, and an industry placement.

The core component encompasses foundational knowledge and transferable skills, while the specialisation focuses on in-depth learning within a chosen vocational area. Industry placements allow learners to apply their skills in real workplace settings.

Benefits:

T-Levels offer several advantages for learners and employers alike.

Industry-Relevant Skills:

Learners gain practical skills directly applicable to their chosen sectors, enhancing employability.

Y12 TECHNICAL COURSES AT LEVEL 3

- Design and Development for Engineering and Manufacturing (Electrical and Electronic Engineering) T Level
- Design, Surveying and Planning for Construction (Surveying and Design for Construction and the Built Environment) T Level
- Digital Production, Design and Development T Level
- Craft and Design (Furniture) T Level
- Aviation Operations Extended Diploma
- Digital Media Diploma
- Engineering - Mechanical Engineering and Design Diploma

DESTINATIONS

This is just a small sample of some of the great destinations our year 13 leavers go on to.



COMPANIES

- British Airways
- Ford
- Costain
- TfL
- Audi
- Thames Water
- Sky
- Rolls Royce
- Britvic
- Airbus
- Skanska
- Hill Group
- KPMG
- Mercedes
- Boeing
- Mace
- Morgan Sindall
- Willmott Dixon
- Metropolitan Police
- Schneider
- Stagecoach
- Ramboll
- Browne Construction
- Ryan Air
- Easy Jet
- Alstom
- RED Engineering
- Panasonic Aviation
- National Air Traffic Control Services
- The British Armed Forces
- Lufthansa Technik Landing Gear Services

UNIVERSITIES

- Cambridge
- Imperial College London
- Queen Mary London
- Kings College London
- Loughborough
- Warwick
- Kingston
- Nottingham
- Sheffield
- Coventry
- Leeds
- Brunel
- City University London
- Cardiff
- Middlesex & Hertfordshire



EXTRACURRICULAR AND PASTORAL SUPPORT AT LDE UTC

Extracurricular Activities

We provide a wide range of extracurricular activities, including robotics, sports, and creative clubs, allowing learners to pursue personal interests and develop well-rounded skills.

Pastoral and Academic Support

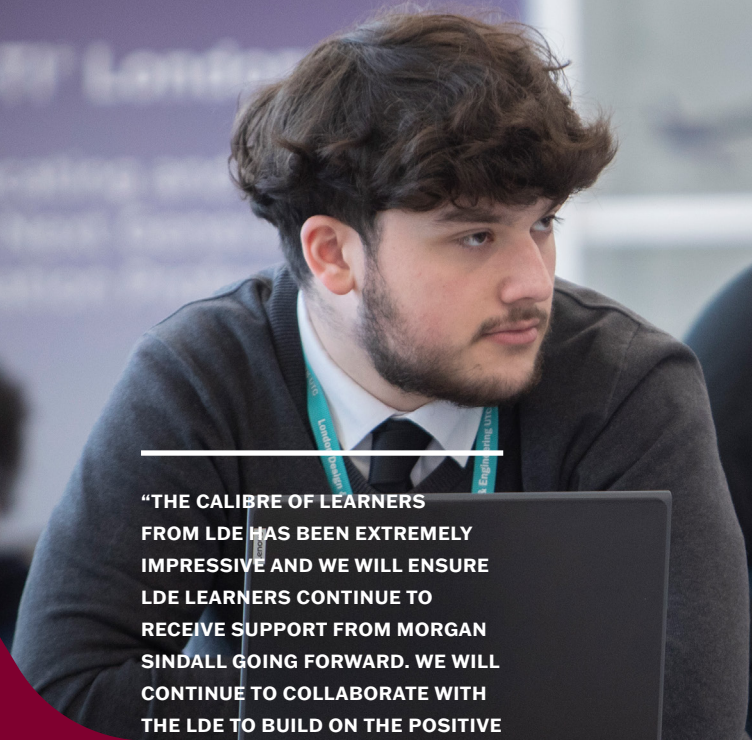
Our dedicated staff provide both academic and emotional support, including mental health resources, mentorship, and personalised tutoring, ensuring that every learner is equipped to succeed.

Through rigorous academic and extensive practical experiences, **LDE UT6^{Form}** prepares learners for a range of exciting pathways, whether they aim for university, vocational training, or direct entry into their chosen fields.

DESIGN, SURVEYING AND PLANNING FOR CONSTRUCTION

Prepare for an exciting and rewarding career in the construction and built environment sector. This program provides learners with essential knowledge and skills in surveying, site planning, and construction design. Learners will develop a strong foundation in architectural design, building surveying, project management, and site assessment, equipping them for a wide range of roles in the industry.

In collaboration with leading construction companies like Morgan Sindall, learners gain invaluable industry exposure. Morgan Sindall actively supports our learners by offering work experience placements, career talks, and opportunities to engage in activities on live construction sites. These experiences give learners a unique, in-depth understanding of the construction process and the practical aspects of working in the built environment. Learners are enthusiastic about acquiring new skills and gaining first-hand insights into the field, which Morgan Sindall's professionals enthusiastically provide. The company is passionate about inspiring young adults, sharing their expertise, and showcasing the diverse career opportunities available in construction.



“THE CALIBRE OF LEARNERS FROM LDE HAS BEEN EXTREMELY IMPRESSIVE AND WE WILL ENSURE LDE LEARNERS CONTINUE TO RECEIVE SUPPORT FROM MORGAN SINDALL GOING FORWARD. WE WILL CONTINUE TO COLLABORATE WITH THE LDE TO BUILD ON THE POSITIVE RELATIONSHIP WE HAVE IN PLACE.”

Monica Paul, Social Value Manager



**MORGAN
SINDALL**
CONSTRUCTION



ENGINEERING - MECHANICAL ENGINEERING AND DESIGN

Embark on a pathway to a rewarding career in mechanical engineering with our Engineering - Mechanical Engineering and Design Diploma. This course provides a foundation in key engineering principles, covering everything from mechanical systems design and materials science to advanced manufacturing techniques. You'll develop essential problem-solving skills, technical knowledge, and design expertise through a blend of practical projects and theoretical learning.

Upon completion, you'll have a range of options, including further education at university, entering the industry, or starting an apprenticeship. Potential career paths include roles in mechanical design, product development, manufacturing engineering, quality assurance, and project management, making this course ideal for those interested in both the technical and creative aspects of engineering.



Part of the TVL Group
TVL Manufacturing





DESIGN AND DEVELOPMENT FOR ENGINEERING AND MANUFACTURING

Prepare for a career in diverse engineering environments, from electrical circuit and product design to system design and diagnostics, through our comprehensive course. Engage in practical and theoretical projects to strengthen your design, development, and analytical abilities. Upon completion, you can continue your education at university or pursue a career in the industry or an apprenticeship. Potential career paths include roles in product development, circuit design, electronic system management, and project leadership within the engineering and manufacturing sectors.

 **FESTO SIEMENS**



OMRON **COSWORTH**

AVIATION OPERATIONS

Gain a Level 3 qualification and industry certifications to fast track your career in aviation with our industry-led courses. You will gain a broad understanding of Aviation Commercial Operations, Economics, Environmental Sustainability, Safety, Security, and Applied Maths.

Our cross-training programme is designed in collaboration with industry to provide you with a deeper knowledge base, educational tools, practical experience, confidence and problem solving skills necessary for a career in the aviation industry.



“I am immensely proud to be leading the industry partners on the IAST12030® Stakeholder Board. The world needs a sustainable supply of the right people from truly diverse backgrounds, centred on ability and opportunity, and I am confident that we have found the right solution to achieve that. I encourage all of industry to get behind this initiative with its ‘collaboration before competition’ approach.”

Nichola Bates, Boeing

 **EMBRAER**

 **BRITISH AIRWAYS**

 **BOEING**



CRAFT AND DESIGN

Our program offers training in furniture making, design, and cabinetmaking, providing learners with essential woodworking skills and craftsmanship expertise.

Learners interested in the creative and design industries will gain practical experience in creating high-quality furniture pieces through hands-on instruction and personalised mentorship.

Join our program to develop the skills and knowledge necessary for a successful creative design and woodworking career.



The Furniture Makers' Company
the furnishing industry's charity



COMPUTING AND DIGITAL

Explore the endless possibilities of technology with Digital Media, Digital Production, Design and Development and Computer Science at LDE UT6^{Form}.

Our cutting-edge technology includes gaming PCs, virtual reality headsets, robotics, and photogrammetry, combined with industry-standard software such as Unreal Engine, Autodesk, Adobe, and LEGO Mindstorms.

Industry partners like ILM, Google, Fujitsu, and Scruffy Dog provide real-world project briefs and practical experience to prepare you for diverse career pathways in game development, software development, architecture design, and data.

You'll learn about Cyber Security, Coding, 3D modelling, 2D design and animation, video editing, social media, and content creation in a dynamic and collaborative environment, taught by experienced and passionate teachers committed to your success.



“Working with the digital learners at LDE UTC has been inspirational. Seeing the learners create content using industry standard software demonstrates transformational and impactful education at its very best. Not only does it develop the learner’s knowledge but provides them with digital skills around emerging technologies that will drive digital innovation and lead to a highly skilled workforce for the UK. Fujitsu are very proud to be working in collaboration with the staff and learners at LDE UTC”

Ash Merchant, Fujitsu

DIGITAL MEDIA

Our program offers hands-on training in digital media, including 3D modelling, video game design, video editing, graphic design, and web development using industry-standard software like Unreal Engine 5. Students will earn a Level 3 qualification recognised by universities and employers for future career opportunities in the creative digital sector.

With employer-led units and real-world projects, students will gain experience with top companies such as Google, Industrial Light and Magic, Fujitsu, and Intel. Our program encourages creativity, critical thinking, and problem-solving skills through dynamic projects that reflect the industry's nature.

Students will build a professional portfolio and make industry connections to boost their career prospects. Join us to pursue your passion and develop valuable skills in the digital media industry.





DIGITAL PRODUCTION, DESIGN AND DEVELOPMENT

Our Digital Production, Design and Development T Level provides an in-depth, hands-on pathway into the digital sector, blending technical skills with real-world experience. Learners will master programming, web and app development, digital design, and data management using industry-standard tools.

Through employer-led projects and work experience with top companies such as Cisco, Fujitsu, and Amazon AWS, students gain invaluable insights into the digital production industry.

This course encourages creativity, problem-solving, and technical expertise, allowing learners to build a professional portfolio and make valuable industry connections.



COMPUTER SCIENCE

Our program provides a solid understanding of computer architecture, memory, and coding skills in a high-level programming language through hands-on projects and real-world applications.

Learners will explore various data structures, such as arrays and lists, to solve computational problems. With fantastic employer projects, learners will gain valuable real-world experience, build a professional portfolio, and showcase their skills to potential employers such as Google, Sensor IT, and Intel.

The program also includes knowledge of network security and software development practices, including designing, testing, and documentation, to enhance employability and prepare for future employment opportunities. Join us to develop practical coding skills and advance your career in the computer science field.



APPLICATIONS

We seek learners who are passionate about technical subjects and interested in our unique blend of academic and practical learning.

Admissions into '**Year 12**' are completed via our online application form, available on **our website:**



Ideutc.co.uk

The deadline for Year 12 Applications is normally in **January**.

Visit our website for the admissions policy and exact application closing date.

If you have any questions please email: **admissions@Ideutc.co.uk**

Attend our open days/evenings to tour our impressive facilities and meet our staff team and learners.



VEHICLE ACCESS

PEDESTRIAN ACCESS



ROYAL ALBERT WAY A1020

A1020

A1020

ROYAL ALBERT WAY A1020

A406
A13

ROYAL DOCKS RD



Buses: 366, 376, 474, 678

CYPRUS

AVA Building

Knowledge Dock

West Building

East Building

Sports Dock



Library



Royal Dock



University of
East London



A117

A117

London City Airport



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