

2020/2021
BOOKLET

42

KUALA LUMPUR
Sunway Education Group

Zero Tuition Fees. Zero Classes. Zero Teachers.

Programme Organisers:

SUNWAY
EDUCATION GROUP

Jeffrey Cheah
Foundation 
Nurturing the Seeds of Wisdom



MDEC®



UNLOCK THE FUTURE OF EDUCATION

> PHILOSOPHY

42KL is a tuition-free computer programming school with a peer-to-peer learning environment that doesn't involve teachers and lectures. 42KL is an innovative education model that was designed to develop the skills needed to jumpstart a career as a software engineer using a project-based learning approach. We're not a traditional university, and we're not a coding bootcamp.

42KL offers an unparalleled educational opportunity to any Malaysian, regardless of socioeconomic status and educational background. The concept has received tremendous traction in cities around the world, including Silicon Valley, and we are now ready to pioneer this tech talent development game-changer in Malaysia.



42KL will help lay the foundation for Malaysia to become the leading digital economy in ASEAN

- Tan Sri Dr. Jeffrey Cheah

**Founder and Chairman of Sunway Group,
Chancellor of Sunway University and Founder and Trustee of the Jeffrey Cheah Foundation**

THE DIGITAL ERA

Good digital talent is hard to come by in Malaysia, ranked as one of the 10 countries in Asia facing acute digital talent shortage. This is according to the Asian Digital Transformation Index study released by the Economist Intelligence Unit. Today we find ourselves in a global digital economy with the rate of change that is faster than anything we have previously seen. Machine learning, automation, and artificial intelligence are set to change what work looks like, particularly as more and more industries undergo digital transformation. The demand for software engineers is on the rise, but more importantly, so is the demand for people who can collaborate, think critically, problem-solve, and create.

To make things harder, the unemployment situation among graduates has grown into a serious matter that needs to be addressed immediately. According to Ministry of Education Malaysia's Graduate Tracer Study, nearly 60% of graduates remain unemployed one year after graduation. In recent years, being a university graduate no longer guarantees you a job.

The world we live in today demands not just people with technical abilities, but problem-solving skills and critical thinking. We will need people who can work together effectively in teams, rather than operating in individual silos. Therefore, 42KL will be an important nation building project for the country, to give access to quality technology education to all Malaysians no matter what your background and socioeconomic status. 42KL will help lay the foundation for Malaysia to become the leading digital economy in ASEAN.

42KL is one of the first campus in South East Asia under the 42 network, a revolutionary and innovative programming school established in Paris and later expanded to Silicon Valley. 42KL is a non-profit initiative through a partnership between the Jeffrey Cheah Foundation and MDEC, together with the support from Sunway Education Group and Sunway iLabs. The campus is situated in Sunway FutureX, at the heart of Sunway City Kuala Lumpur.

WHY 42KL?

Fans of the science fiction novel will recognize the significance of 42 from The Hitchhiker's Guide to the Galaxy, where it is the 'Answer to the ultimate question of life, the universe and everything'. Wanting to give students the ability to navigate their own ultimate questions through learning how to code was the inspiration behind Ecole 42 and 42 Silicon Valley.

42KL is an innovative, higher education technology school that turned the traditional education model upside down and provides an industry-leading college-level education for free with no teachers and classes. Our open admissions process is entirely merit-based and open to all above 18.

42KL will give everyone an equal opportunity to learn. Gone are the days of high quality computer programming education in Malaysia that can be expensive and restricted to a single model of learning. 42KL changes the way we think about learning.



"42KL will give everyone an equal opportunity to learn"
- Dr. Elizabeth Lee, CEO of Sunway Education Group



THE 42KL EDUCATION

42KL offers a rigorous, industry-leading education modelled after a professional work environment. When you don't have teachers or professors, students are the ones in charge of their own success and that of their peers. We believe that fostering students' ability to think critically, enhance their ability to problem-solve, and create hands-on projects is not only more effective for learning but also more fun. In the end, this creates a community of lifelong learners and contributes to helping students evolve into well-rounded software engineers. Students not only learn advanced programming skills, but also develop valuable interpersonal skills and an ability to communicate with people at different levels of understanding. Furthermore, our peer-to-peer based learning model will help to bridge the current gap and future needs of the tech world, meaning students develop a critical long-term foundation but also real-time marketplace skills.



PEER-TO-PEER LEARNING

Peer-to-peer learning at 42KL primarily focuses on promoting passionate student engagement. Peer instruction adds value in its ability to encourage critical thinking, problem-solving and innovation. This will create a dynamic exchange between the students that work together to confront and troubleshoot challenging situations without any prior knowledge. This type of teamwork naturally leads to forming strong bonds between students that will assist them later on in their careers, not to mention the personal enrichment from making a new community of friends.



Peer-correction are also part of our peer-learning curriculum. They are an educational technique where students correct each other. Giving corrections is an important part of the process when it comes to working on projects; students must rely on feedback from their peers about their work to progress. By giving and receiving information and by alternating between training and learning, 42KL students adapt and progress rapidly.

Peer-To-Peer Learning is an educational practice in which students interact with other students to attain educational goals.



PROJECT-BASED LEARNING

Project-based learning is a hands-on way to explore your passions, develop skills and creativity. Instead of classes or courses, we have a connected galaxy of projects that last from 2 days to 6 months. Some projects are worked on individually and others are done in groups with peers.

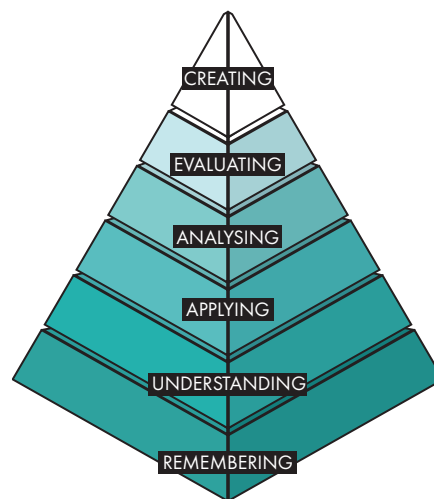
Each project is a challenge with a brief description of objectives and skills students will learn throughout the process.

LEARN HOW TO LEARN

42KL is not just about languages, algorithms, and technologies. We teach you how to learn – how to exercise creativity, collaborate, and problem-solve to tackle various challenges.

OUR EDUCATION MODEL

Since access to knowledge has changed, memorising information has lost much of its value. Instead, humans add value in their ability to critically reason, problem-solve, and create; these are the top levels of Bloom's taxonomy, a structure that illustrates the depth of learning:



Lectures and traditional learning live at the bottom levels. At 42KL, our programmes live at the top levels and are integrated into projects-based, hands-on curriculum.

LEARN AT YOUR OWN PACE

The 42KL program boasts the flexibility for students to choose their specialisation without compromising essential concepts and strategic thinking. At 42KL you can learn what you want, at your own pace. 42KL's educational curriculum is 100% individualised. Self-paced learning is a big part of our commitment to making tech education more accessible. Learning at your own pace is also an investment in yourself. By rushing through a curriculum to keep up with the rest of your class or being held back by the average pace of your peers, it is difficult to stay motivated and engaged. Instead of making a commitment to an institution's schedule, 42KL allows students to commit to a pace that works best for them intellectually and personally.



LEARN FROM FAILURE

At 42KL we are here to support you as you take your first step in programming. But you must be prepared to fail, as failure is an essential part of the learning process. 42KL students oversee their education so they have the freedom to fail several times before they succeed. You really cannot become a great programmer if you don't have the fundamentals, and you cannot get the fundamentals down without experiencing failure. It will have you adjust to unexpected changes and navigate new and creative ways to get out of a slump. Adaptability and creative problem solving are great skills to have in the workplace, and you'll be able to develop those skills here.

NOT JUST FUTURE SOFTWARE ENGINEERS

Not everyone who studies programming wants to become a software engineer, and the tech industry has a lot of different and exciting roles. 42KL is the perfect place to get those foundational tech skills and build out your own pathway from there. There are individuals who went to other 42 networks who are certain that they want to become a software engineer, and there are other people who know they would excel in other roles, such as a product/project manager, UX or UI designer, mobile app developer and more. Rather than guiding you on specific language or technologies, we want you to learn how to adapt, handle setbacks, learn how to collaborate, and solve new challenges. When you combine what you love to do with a deep understanding of tech, the possibilities are endless.

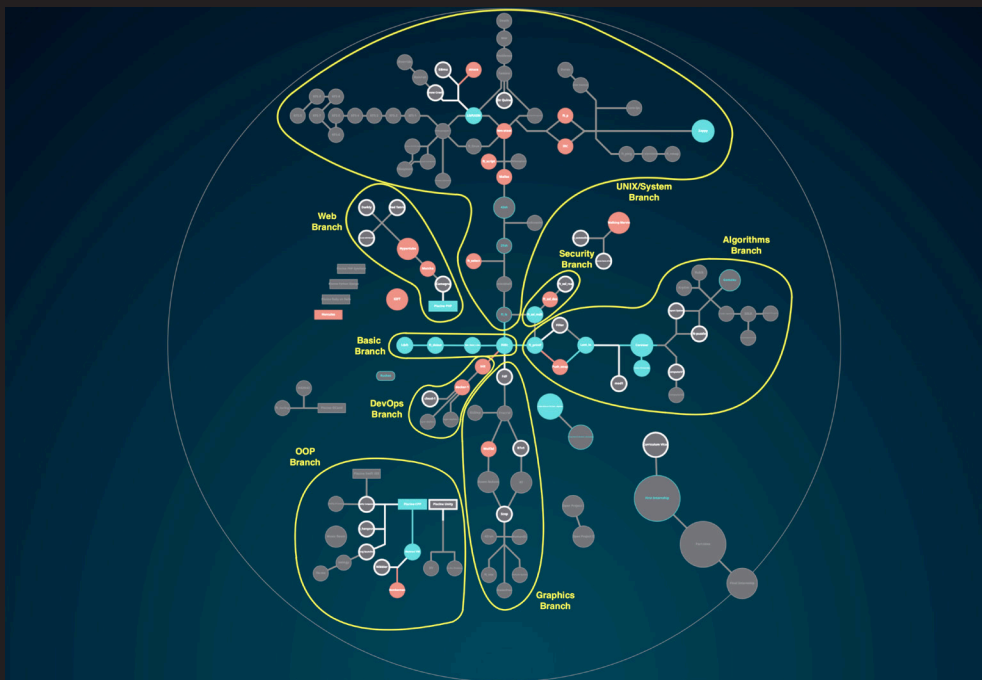


The opportunity for quality education should be open to anyone, regardless of their background, schooling, or demographics



GAMIFICATION

Academic progress at 42KL is accounted for using experience points, which was inspired by video games. Students develop their competencies through each of those proposed projects and receive experience points in exchange for this. Each completed project unlocks the next project(s); each successive project is increasingly more substantial and more highly rewarded. This gamification mindset allows all learning to be fun, while enhancing students' passion, persistence, and motivation to get to the next level.



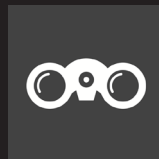
42KL is more than just a coding school. What makes us unique and a major disruptor in the education space are our five defining characteristics of the 42 culture:



Pursuit of Excellence



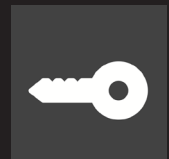
Innovative and Challenging



Creativity and Passion



Commitment to Community



Belief in Open Opportunities

Every element of 42KL reflects our culture: from the students, to how the curriculum is structured, to the RM 0 tuition fees and open admissions process. We believe that quality education should be open to all regardless of their background, race, religion, gender, and socioeconomic status. We do not want money to be a reason students cannot attend 42KL, so we do not charge fees and students don't need to purchase devices or books to complete the 42KL programme.

ADMISSIONS ROADMAP

Our admissions process is unlike any other – there are no requirements. We don't ask for grades, SPM results, recommendations, etc. Anyone 18 and above are welcome to apply.

The application process is designed in such a way that it is accessible for everyone, no matter your level of understanding in coding & programming. During the application process, you will figure out if our educational model is the right fit for you! And all of that, without paying tuition fees. What do we ask from you? The willingness to learn and work hard!

Your admission to 42KL starts on our website at www.42kl.edu.my



> **THE ONLINE TEST** - After you have created your profile at 42KL, you start the online test. The online test consists of 2 games and you will work your way through multiple levels. This process will take about 2 hours. Please ensure you have a stable internet connection and zero interruptions during this test.

> **THE INTRODUCTION SESSION** - During this session, we will give you a presentation about our educational model, the curriculum, how to get in and to meet other potential 42KL students! After the presentation, we will take you on a tour of the campus. This Introduction session can also be done virtually if you are not based in Klang Valley. At the end of the session, you get to choose a starting date of your 4-weeks Piscine!

**Open to anyone above 18! No coding / programming knowledge needed.
Just hardwork and determination. Apply now at www.42KL.edu.my**

THE PISCINE

The word Piscine means “swimming pool” in French. The idea is that everyone should learn to swim by first diving into the water. During the Piscine, you’ll dive into the world of programming and figure out if this world is for you. The Piscine takes place for 28 days nonstop.

This means 7 days a week, day, and night, for 28 days straight. It is a demanding yet unforgettable experience! You’ll meet and make new friends.

We start with the basics; you write your first lines of code before moving on to more complex coding exercise. No previous programming is required. We just ask that you know how to use a mouse and a keyboard.

The Piscine takes place in our campus and must be completed in-person. It is an incredibly rewarding, once-in-a-lifetime experience. You’ll try and fail, repeatedly. But the good news is that this trial-and-error period is a learning process in and of itself, it builds stamina and determination; develops problems-solving skills and creativity, all skills that are necessary for the current workforce.



CREATE YOUR OWN PATHWAY

Students control what they learn, when they learn and how they learn within the 42KL programme. They learn at their own pace and can pursue three main branches of our curriculum; systems, algorithms, or graphics. Rather than a series of languages and specific technologies, 42KL's programme follows a logical sequence of 17 long lasting skills:



These skills also have the same fundamental element: personal adaptability, learning, coping, and solving new challenges that they inevitably face regularly. Even if it has a few obligatory paths, 42KL's programme can be individually tailored throughout.



www.42KL.edu.my

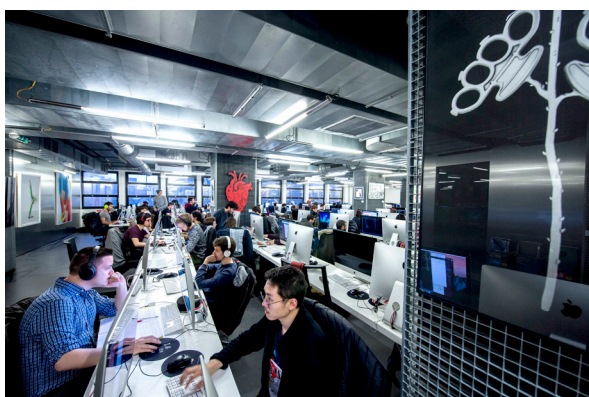
PERSONAL DEVELOPMENT

When students struggle or don't know what to do, they ask fellow students. This encourages an exchange of knowledge, wisdom, and resources and allows students to overcome obstacles on their own. Students also have an innate sense of pride and passion in their work knowing that once they complete a project, they will be asked to help at some point and are bound to be able to answer questions from other students.

Once a student is already familiar with a project, they are encouraged to push and exceed their limits. For example, after having worked with a certain type of technology during the industry placement, it is not uncommon for students to see associated 42KL projects in a new light. As a result, they can progress faster and take on more complex challenges without having to wait for their classmates to catch up with them.

PERSONALISED LEARNING

Each student advances at their own pace. Some notions are instinctively simpler for them to develop, while others will require further attempts. On this basis, lessons at 42KL do not have fixed time limits; each student progresses not in relationship to their position within the whole graduating class (where the individual who is the furthest behind slows down the entire group), but at their own pace. It is difficult to fall behind when following 42KL's educational curriculum because it is 100% individualised.



PART-TIME OPTION

42KL doesn't separate "part-time" and "full-time" students. We use project-based learning and students' progress in their own timeframe, so you can start and complete projects when it suits you. 42KL is open 24/7, 365 days a year, so come when you have time.



LOCATION

Our campus is in the heart of Sunway City. Surrounded by an ecosystem of educators, corporates, and places to live and play, 42KL's campus is a great hub to put your skills to the test.

CAMPUS LIFE

A great aspect about 42KL despite it being free is that students have access to all the facilities provided by Sunway University such as the extensive library.

42KL students are also just a few steps away from Sunway FutureX – Farm, a new hub for urban farming in Sunway City. Students are encouraged to visit FutureX – Farm and even perhaps think of solutions that could help the agriculture industry.

Follow us on our social media channels!



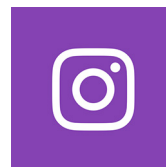
community@42kl.edu.my



[@42kualalumpur](https://www.facebook.com/42kualalumpur)



[/42kualalumpur](https://www.linkedin.com/company/42kualalumpur)



[@42KualaLumpur](https://www.instagram.com/42KualaLumpur)



[@42KualaLumpur](https://twitter.com/42KualaLumpur)

42KL TEAM

42KL is part of Sunway's new vertical called FutureX. Guided by the team behind Sunway iLabs, FutureX is a space for innovation in education and agriculture to flourish. Here are the individuals empowering this initiative:

**Matthijs van Leeuwen**

Chief Innovation Officer,
Sunway Group
Director, Sunway iLabs
*"A Malaysianized Dutchman
who loves a good nasi lemak, the
innovative way"*

**Jeff Sandhu**

Head, FutureX Talent
*"Hitchhiking my way to the
Galaxy"*

**Thila Vijayan**

Curriculum Specialist,
FutureX Talent
*"Chasing Dinosaurs and
Space"*

**Mirosha Somasundram**

Community Curator,
FutureX Talent
*"I have 10 notebooks with 15 labels
for 5 different things"*

**Eleanor Choong**

Head, iLabs Ventures
Head, FutureX Farm
*"Want to see plants, people and
passions grow"*

**Karen Lau**

Head, iLabs Foundry
*"Actively driving works that
challenge boundaries and lives
with a coffee machine"*

**Dr. Beh Ching Yew**

Manager, iLabs Foundry
"Possibly H.ard to D.escribe"

**Koo Tse Chien**

Community Manager,
FutureX
*"A nature lover and inspired by
connections with people and
ideas"*

**Yap Joong Sern**

Makerspace Assistant,
iLabs Foundry
*"Proud to be the youngest in the
team"*

LIFE AFTER 42KL

The skills you develop at 42KL, are not limited to one job or industry. Of course you'll learn to code, but more importantly: you learn how to learn!

With learning to learn, we mean that throughout your studies at 42KL, you will develop skills to stay curious, to stay relevant and to build the confidence to try out any challenge coming your way.

The sky is the limit!

And it's exactly those skills you need for jobs of the future. That means with the skills you develop at 42KL, you can apply to any dream job you want!

There are already thousands of alumni from our 42 network around the world. So based on that, we can already give you an idea of your possible future:

- Every student gets 3 job proposals on average during their studies
- Every student has 2 paid industry placements which gives them work experience
- Final projects build up a strong portfolio of problems companies need solved



> AFTER 42KL - JOB POSITIONS

Below are examples of positions currently being held by former 42 students plus the average yearly salary according to glassdoor.com and on the yearly salaries by graduated 42 students.

- Mobile App Development: RM54,000 p.y
- Cyber Security Engineer: RM52,000 p.y
- Data Engineer: RM60,000 p.y
- Front End Web Developer: RM70,000 p.y
- Data Scientist: RM72,000 p.y
- Software Engineer: RM75,000 p.y
- Full Stack Developer: RM90,000 p.y
- Project Manager: RM100,000 p.y

**Varies from each companies. Based on recent Glassdoor.com market research*

INDUSTRY PLACEMENTS

Why hire 42KL students? 42KL students are already habituated to the work life of current workforce, spending hours in real projects in a professional environment. Students spend a significant amounts of time working in groups and yet at the same time can operate autonomously, meaning they have strong interpersonal, communication and leadership skills



CONNECTING WITH COMPANIES

We're proud to partner with companies and organisations not just for their hiring needs, but to change and impact Malaysia. Companies recruit from us and are interested in how we can support their tech talent needs. More than that though, companies also find value in partnering with us on hackathons, projects and issuing challenges to our students and seeing how they solve problems. Our value doesn't just lie in hiring students; it's in how we think, learn, and solve.

Industry Placements: These are typically 3 to 6 months long. It serves as a great way for the students to get hands-on experience as well as work with potential future employers.

ANCHOR PARTNERS



COMMUNITY PARTNERS



FAQ

ARE THE COURSES ONLINE?



No. 42KL is a physical coding/programming school and we believe that the best way of learning is in our campus. Considering the current pandemic, we will be ensuring a safe environment with all physical distancing measures in effect.

ARE THERE ANY TEACHERS?



42KL is a peer-to-peer learning school, so no teachers. There is the educational staff who create a framework for guiding students through the curriculum. You learn and discover by yourself and with your peers. One step at a time.

WHAT DOES PEER-TO-PEER LEARNING MEAN?



Peer-to-peer learning is an education model where students learn from each other instead of learning from an appointed teacher. You will also learn from explaining to your peers.

HOW IS THE CURRICULUM STRUCTURED?



42KL is part of the 42 network that's based in Paris and Silicon Valley. There are more than a hundred projects laid out as a tree. You can follow different paths to discover multiple aspects of programming and IT.

WHO WILL ASSESS THE QUALITY OF MY PROJECTS?



Your tasks will be assessed and graded using our system within the 42 network. You will also be subjected to a peer-to-peer assessment period where several other students will assess your project and engage in an open dialogue.



FAQ

DOES THE SCHOOL ORGANISE ANY ACTIVITIES?



Yes, a lot! 42KL will invite guest speakers and organise hackathons on a regular basis so you can get in touch with a lot of very different people from very different backgrounds and disciplines. We don't just want our speakers to have a presentation but create a bond with students of 42KL.

WHAT DOES THE CURRICULUM INCLUDE?



You start building a base in the C programming language, and optionally Web programming. The curriculum then includes Object Oriented programming, Mobile programming, Functional programming, Web security, Reverse engineering, Malicious Code, Kernel programming, Network programming, Artificial intelligence, 3D programming, and much more. This would complete the first 12-months curriculum before an industry placement.

WILL I SPEND MY CAREER CODING BEHIND A COMPUTER AFTER 42KL?



Would you like to? If so, this is definitely possible. But it is more likely that you will develop new skills and interests and find other positions related to digital. Is there any company or organisation that is not affected by the digital transformation?

DO I RECEIVE A DIPLOMA/DEGREE OR CERTIFICATE WHEN I FINISH?



At 42KL you do not receive a diploma/degree or certificate. However, this is not a problem at all! Companies can't wait to welcome qualitative programmers. Having a diploma/degree or certificate does not matter for the company. The only thing that does matter is who you are, how you work, and what you can do. During 42KL you build your own personal portfolio and the opportunity to work with partners in the early stage of your studies. Lastly, we want to add that in tech, you never stop learning. It is constantly evolving, and so will you!

HOW MUCH TIME WILL IT TAKE TO COMPLETE THE COURSE?



How much time do you need? We strongly believe that each student is unique and should be allowed to learn at their own pace. On average, students finalise their studies in 12 months for the core programme. Beyond that, it is up to you if you'd like to return and continue with a specialisation course. It is not a race. It is about learning, not winning.

CAN I STOP THE COURSE HALF WAY? CAN I THEN COME BACK?



Though we would not recommend doing it, you can stop at any time. Keep in mind that 42KL's course is full-time and requires commitment. But sometimes life gets in the way and instead of leaving the course, get in touch with the educational staff to review your situation. If pausing your course is right for you, it is possible. You will then be welcome to resume from where you were when you come back.

FAQ

CAN I GET A VISA TO STUDY AT 42KL?



If you want to join 42KL you need to be able to stay in the Malaysia legally for at least 365 consecutive days. If you cannot meet this criterion, we will have to deny your application. Unfortunately, we cannot provide you with a student visa.

WHAT DO I NEED TO DO TO GET IN?



Apply at **www.42KL.edu.my**! After registration, you need to pass an online test of two hours long. If you succeed you need to clear the last hurdle, the 'Piscine'.

WHAT DO I NEED TO PREPARE FOR THE PISCINE?



You will need a lot of energy and determination. Failure is part of the whole process and you will be put in an extremely challenging position. Beyond that, it is important that you have an accomodation as well as transport to our campus. The Piscine runs for 28 days straight, including weekends! It must be completed in person at the 42KL campus. Developing soft skills, peer learning, and peer correcting are central to our learning philosophy, so you need to be here in person.

DO I NEED TO HAVE SOME EXPERIENCE IN CODING?



Not at all! Absolutely not!

NO TUITION FEE? HOW DOES THAT WORK?



It is our nation building initiative to give people the opportunity to maximize their talents. We believe that everyone deserves a fair chance to follow their dreams, regardless of background and resources. It is for this reason that 42KL covers for your tuition fee. You will not be charged during or after your studies at 42KL.

So where does the money come from? 42KL is made possible, thanks to the Jeffrey Cheah Foundation, Sunway Education Group, Sunway iLabs and MDEC. Together with our anchor partners, we are able to provide this opportunity to all Malaysians above 18



FAQ

ARE THERE OTHER COSTS I SHOULD TAKE INTO ACCOUNT?



During your study at 42KL, you will have to make your own living. This implies you need place to sleep and some money for food and other expenses.

Finding a suitable place to stay however shouldn't be a problem as there are plenty of student accommodation options in the area.

WHAT IF I STILL HAVE SOME QUESTIONS AND WOULD LIKE TO SPEAK TO SOMEONE?



We are always contactable via our social media pages or drop us an email at **community@42KL.edu.my**

We will be happy to assist you within 24 hours. You can even schedule a virtual face to face chat with us if you'd like.

IF [FUTURE==TRUE] THEN 42KL





KUALA LUMPUR
Sunway Education Group

SCAN ME!



Contact Us

Email : community@42KL.edu.my
Web : www.42KL.edu.my

