

KITE

Karachi Institute of Technology & Entrepreneurship

AN ECOSYSTEM OF INTERDISCIPLINARY
EDUCATION, APPLIED KNOWLEDGE
AND ENTREPRENEURSHIP

OUR VISION

An ecosystem of interdisciplinary education,
applied knowledge and entrepreneurship

OUR MISSION

To create a critical mass of well-rounded
citizens with a “can-do” attitude who
thrive in multidimensional, local
and global societies

About KITE



AT A GLANCE

Campus Location
Commencement of Classes

Korangi Creek, Karachi
September 2013

SCHOOL of SCIENCE & ENGINEERING (SoSE)

Program	Computer Science
Degrees	BS, MS

Program	Electrical Engineering
Degrees	BS, MS

SCHOOL of SOCIAL SCIENCES, HUMANITIES & LAW (SoSSHL)

Program	Politics, Economics, Rhetoric and Law (PERL)
Degree	BA, MA

SCHOOL of ARTS & DESIGN (SoAD)

Program	Computer Arts
Degrees	BA

SCHOOL of BUSINESS (SoB)

Program	Business Administration
Possible Degrees	BBA, MBA



A CAMPUS IN THE HEART OF THE CITY

KITE's campus is located at Korangi Creek, the evolving, de facto Education City of Karachi. It is an impressive 70,000 square feet space that can accommodate 1000 students. It has state-of-the-art facilities, lecture theatres, interactive classrooms and seminar rooms. Natural lighting, passive cooling and powerful air conditioning make the classrooms well-lit, appealing and comfortable. Break out rooms and collaborative spaces provide students with flexible learning areas. Indoor and outdoor spaces are designed for recreational, sports and fitness activities.

As part of KITE's prime objective to be an ecosystem of interdisciplinary education, applied knowledge and entrepreneurship, the campus houses a Professional Development Center and a Technology Incubation Center, providing multiple possibilities for academia-industry research, practical work experience and ongoing learning.



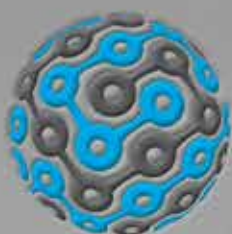
A TECH-ENTREPRENEURSHIP INSTITUTION

Karachi Institute of Technology and Entrepreneurship (KITE) is the flagship project of the not-for-profit Educational Enrichment Foundation (EduEnrich). Envisioned as “an ecosystem of interdisciplinary education, applied knowledge and entrepreneurship”, KITE offers an academic experience that combines theoretical insight into and practical exposure in science, technology, engineering and math (STEM), entrepreneurship, humanities, social sciences and the arts.

Personal impact is at the heart of a KITE education, enabling young individuals to become life-long learners, thinkers and doers. Both inside and outside the classroom, students have opportunities to grow personally and professionally. KITE’s educational paradigm provides effective mentorship, in order for students to cultivate maturity and problem-solving skills and realize their true potential. We enable our graduates to become leaders in the knowledge-based economies of today and tomorrow.

SOCIETY

EDUCATION



KITE

INDUSTRY

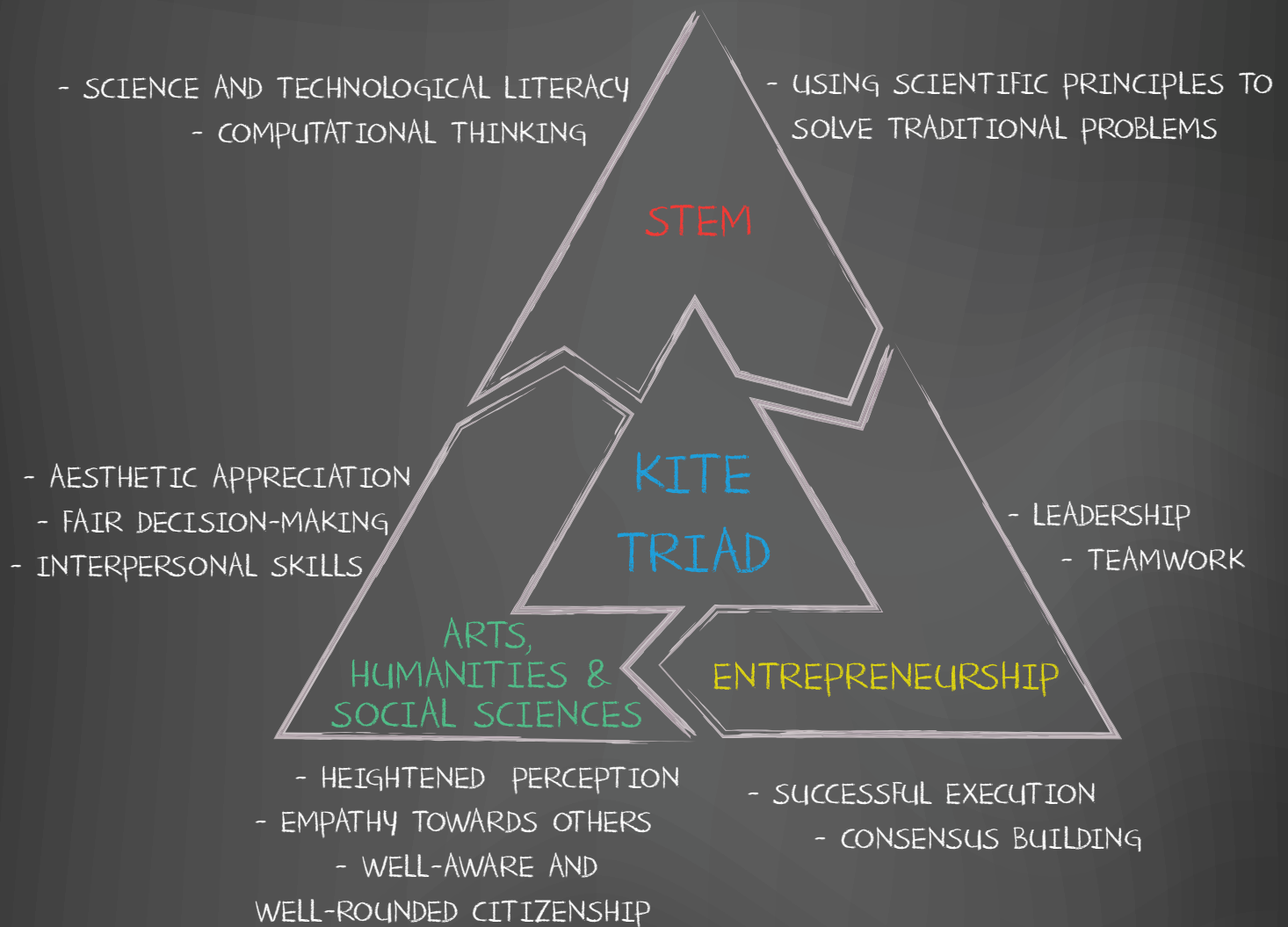
THE KITE TRIAD: A UNIQUE LEARNING EXPERIENCE

KITE provides a thorough education. Its unique academic model equips students with depth in their chosen field, breadth in other disciplines, and a vision for entrepreneurship in order for them to successfully create real-world solutions for real-world problems. Key components of the KITE Triad include STEM, Arts, Humanities, the Social Sciences and Entrepreneurship.

Exposure to STEM fields is an essential aspect of the KITE experience, preparing students to deal with the emerging challenges of the twenty-first century. Students receive a strong theoretical grounding along with a thorough understanding of the diverse applications of STEM. Both science and non-science students develop an appreciation for the growing relevance of science and technology in the world today and understand the interplay between different disciplines.

The KITE triad ensures a strong foundation in Arts, Humanities and the Social Sciences for all its students to help them become well-rounded and aware individuals. Students graduate as effective leaders and communicators, who can work across multicultural teams, adapt to changing environments, while being critically conscious and ethical.

Entrepreneurship education is integrated within each academic program at KITE through structured course work, projects and internships. It plays a key role in preparing students to establish their own companies. Students learn to proactively avail existing opportunities and seek out new ones, analyze the potential of creative ideas, and prepare workable business models. KITE also houses an incubation center that offers students with a unique opportunity to pilot their business concepts.



Effective Pedagogies



KITE faculty members employ innovative teaching methods in order to help students become self-directed, life-long learners with versatile capabilities. Interdisciplinary approaches are integrated into the curriculum, which is cognizant of Pakistan's indigenous context and global market requirements. The inclusion of local case studies and community-based projects in KITE's coursework enables KITE students to become critically conscious and technically savvy.

Hands-on Experience

KITE's national and international affiliations provide opportunities for student exchanges, internships, industry-led projects and competitions. The entrepreneurial drive, professional skills and superior work ethic developed as a result of these collaborations enable students to obtain jobs both at home and abroad. Additionally, seed funding is made available to students with exceptional project proposals.



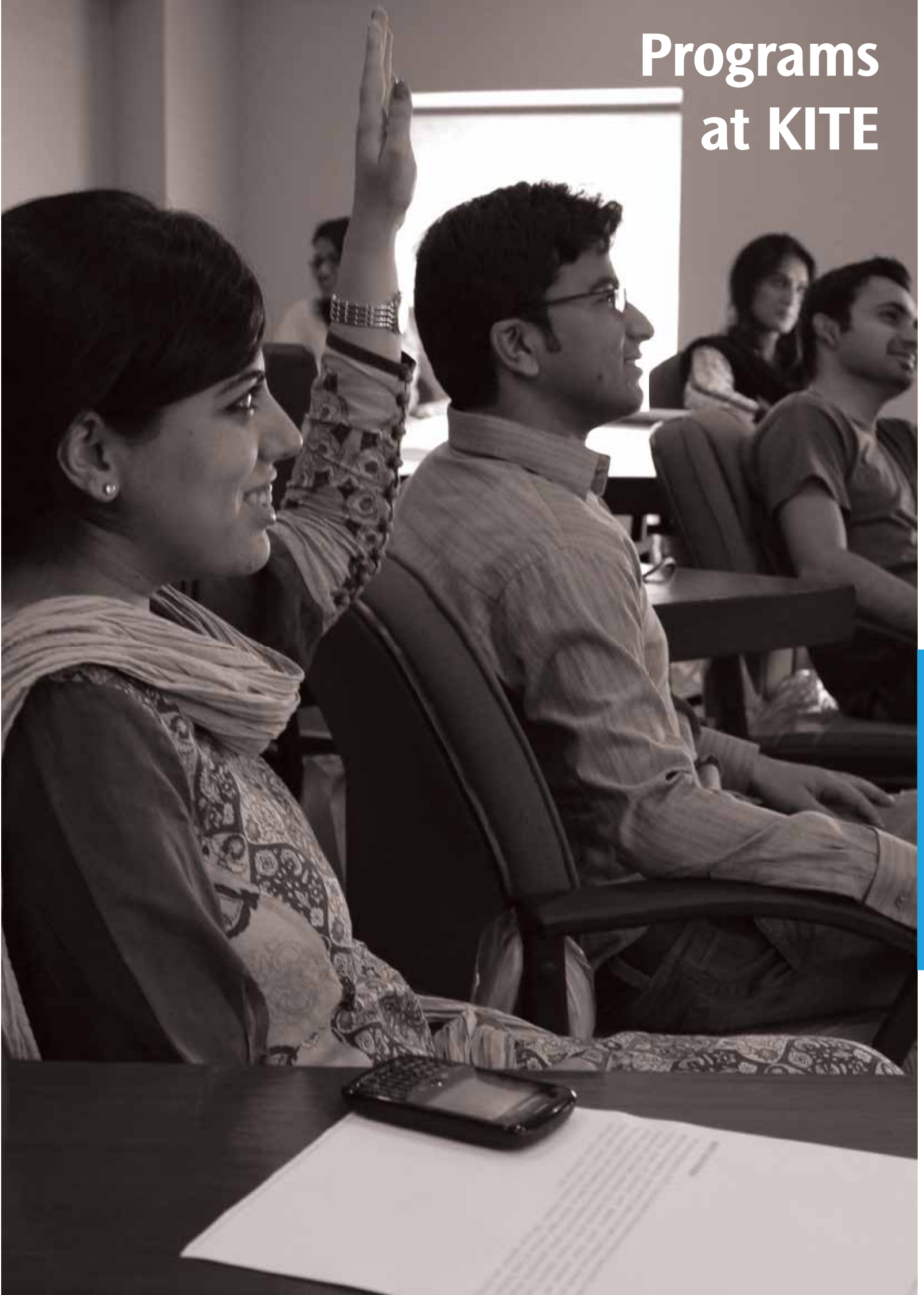
Career Opportunities



The KITE academic experience makes graduates better equipped to address contemporary social, economic and technological challenges. In addition to competitive training in their field of choice, the KITE Triad provides our students with excellent communication skills (both oral and written), knowledge of a variety of phenomena, and increased ability to adapt to any social or professional environment. All of these traits make our graduates highly sought after by leading employers in a variety of industries.

KITE facilitates interviews and job placements for students through its strong industry linkages. Additionally, our extensive venture capitalist networks (facilitated by both the Technology Incubation Center and Professional Development Center) open up a host of entrepreneurial opportunities for interested graduates.

Programs at KITE



School of Science and Engineering (SSE)



Computer Science

Human-Computer Interaction

Networks & Security

Game Design

Computer Graphics

Computer Systems

Information Systems

Artificial Intelligence

Electrical Engineering

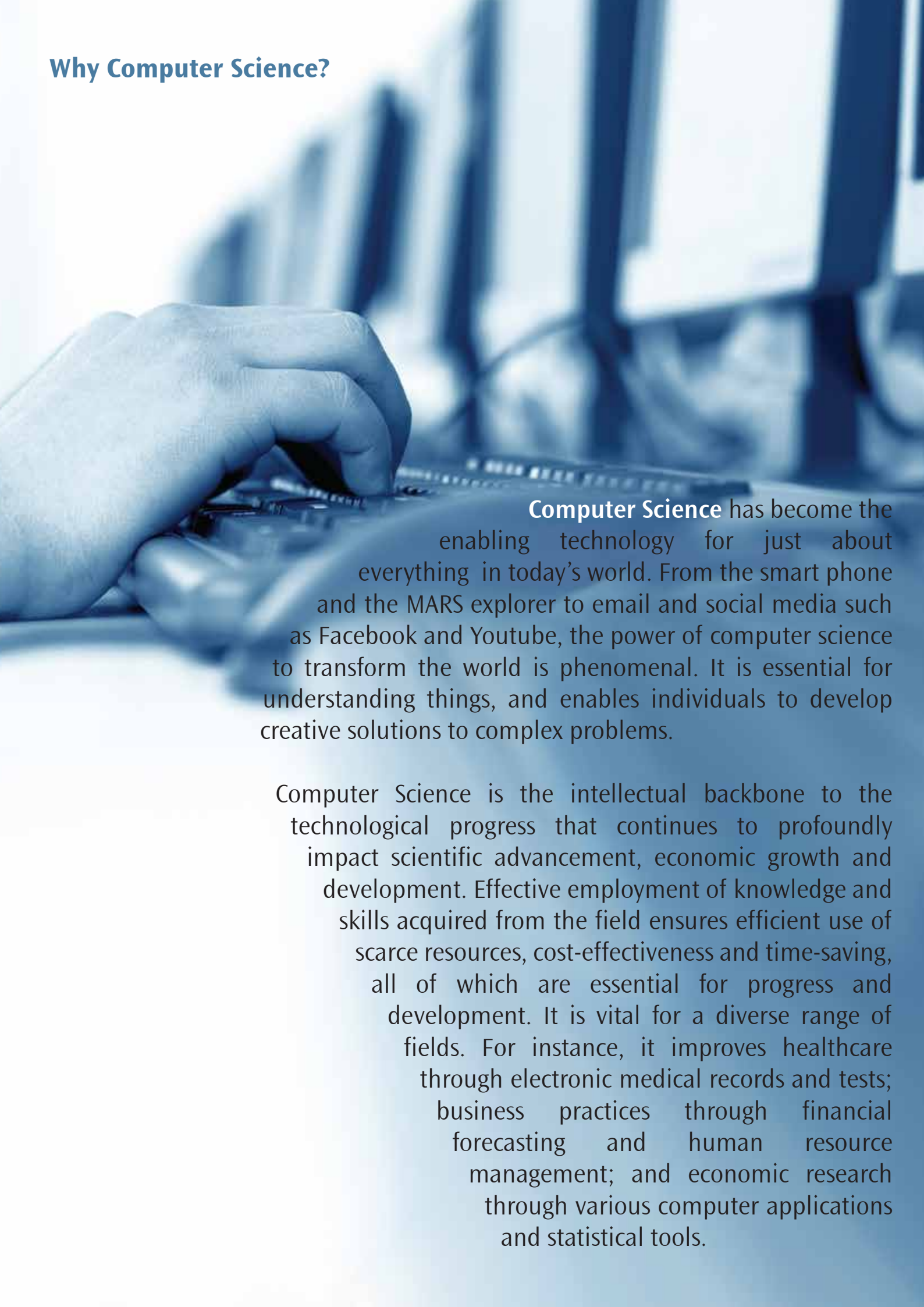
Power Systems

Computer Engineering

Electronics

Telecommunication

Why Computer Science?



Computer Science has become the enabling technology for just about everything in today's world. From the smart phone and the MARS explorer to email and social media such as Facebook and Youtube, the power of computer science to transform the world is phenomenal. It is essential for understanding things, and enables individuals to develop creative solutions to complex problems.

Computer Science is the intellectual backbone to the technological progress that continues to profoundly impact scientific advancement, economic growth and development. Effective employment of knowledge and skills acquired from the field ensures efficient use of scarce resources, cost-effectiveness and time-saving, all of which are essential for progress and development. It is vital for a diverse range of fields. For instance, it improves healthcare through electronic medical records and tests; business practices through financial forecasting and human resource management; and economic research through various computer applications and statistical tools.

B.S. in Computer Science at KITE

KITE's Computer Science program offers superior preparation in the field by equipping students with the essential tools required to respond to emerging technologies and excellent critical thinking and communication skills as a result of the KITE Triad coursework.

The program offers both theoretical and practical grounding in the basics of computer science, as well as specialized knowledge of different domains within the field. Students acquire a strong foundation in math, physics, programming languages, software engineering, computer architecture and data structures and algorithms. They gain insight into the practical issues of building and maintaining effective computer systems and databases for different industries. Information security and networks, human computer interaction and artificial intelligence are other components of the program.

Through coursework, labs and project based learning, KITE's Computer Science program ensures that students develop:

- i) computational thinking
- ii) problem solving capabilities
- iii) entrepreneurial skills



Concentrations

Human-Computer Interaction
Networks and Security
Game Design
Computer Graphics
Computer Systems
Information Systems
Artificial Intelligence



Jobs and Future Prospects in Computer Science

Currently in Pakistan, there are more available jobs in computer science than in any other comparable field in the country. The computer science industry offers a much more attractive pay scale than jobs in traditional disciplines. Additionally, the rate of salary increment is much higher than other fields and earning in foreign currencies is also possible in this industry. At the end of the four-year undergraduate program, KITE's Computer Science graduates can earn at internationally comparable pay scales at multinational companies as well as get jobs abroad. They can also pursue careers in software development companies, develop innovative solutions for other industries such as engineering, telecom and transportation or establish their own start-up businesses. Additionally, graduates will be able to pursue further studies at leading academic institutions around the world.



Why Electrical Engineering?

Electrical Engineering has growing application and an unparalleled impact in all aspects of our daily lives. We are increasingly reliant on machines and devices that are products of electronics and computer engineering. From the home to industrial plants, communication and satellite navigation system, electronic equipment and computers, nearly every industry requires electrical engineers, and employment opportunities are extensive.

B.S. in Electrical Engineering at KITE

The complexity of this field demands electrical engineers who possess sound conceptual and theoretical understanding, concrete technical expertise and relevant hands on experience, and are able to simultaneously draw on any combination of these as needed. Electrical Engineering at KITE thus combines rigorous training in engineering fundamentals and applications with essential knowledge in arts, humanities and social sciences and entrepreneurship to produce engineers of the future.

Students study diverse utilization of electricity and electrical equipment that generate, allocate and distribute power as well as the functioning of all sorts of electronic devices, from pocket calculators to supercomputers. They are exposed to current developments in the field and learn to combine technology with creativity. The KITE campus houses state of the art laboratories.

All KITE Electrical Engineering students have the opportunity to:

- i) undertake applied research in preparation of engineering innovation and lifelong learning
- ii) obtain practical work experience in related industries and companies
- iii) attain essential entrepreneurship skills so they can think creatively and even establish their own start ups in the future

Concentrations

Power Systems
Computer Engineering
Electronics
Telecommunications





Jobs and Future Prospects in Electrical Engineering

KITE's Electrical Engineering program offers outstanding preparation for employment and self-employment with almost any industry that comes to mind. Considering that electricity and electrical devices are widely used, there is high demand for skilled professionals to build, repair, and improve these devices in Pakistan and abroad. Graduates can pursue employment opportunities in:

- power generation, distribution and transmission companies
- computer technology corporations
- telecommunication companies
- electrical equipment and systems manufacturing companies
- railway, aircraft and automobile industry
- health-care equipment manufacturers
- measurement devices manufacturers
- navigation controls manufacturers
- scientific research and development firms


Setting up their own enterprises is another attractive option for KITE graduates, given their training in entrepreneurship, superior technical skills and project management ability. The program also prepares them for postgraduate studies at leading universities around the world.

SCHOOL OF SOCIAL SCIENCES,
HUMANITIES and LAW (SOSSHHL)



PERL = Politics + Economics
+ Rhetoric + Law

Why PERL?

A close-up photograph of a hand gripping a thick, light-colored rope. The hand is positioned on the left side of the frame, with the fingers wrapped around the rope. The background is a solid, light blue color. The lighting is soft, highlighting the texture of the skin and the rope.

In an increasingly inter-connected world, academic, corporate, government and non-government organizations all require individuals who can understand and address complex issues with an interdisciplinary approach. Be it an international organization, multinational company, or a local development organization, employees are required to understand the political, legal and economic context of our current global environment and respond to the complex and intricate challenges it poses.

KITE's undergraduate degree in Politics, Economics, Rhetoric and Law (PERL) is an innovative and integrated four-year program that produces well-rounded individuals with versatile capabilities, who can think critically, communicate effectively, and work with cross-cultural teams, for civil society development.

B.A. in Politics, Economics, Rhetoric & Law at KITE

PERL is a unique program offered by KITE's School of Social Sciences, Humanities and Law (SoSSHL). The curriculum provides an analytical perspective on real world issues. It provides a thorough grounding in politics, economics, rhetoric and law and brings out the connections and interrelationships between the disciplines. Besides these four disciplines, students undertake STEM and entrepreneurship courses to obtain the requisite scientific foundation and entrepreneurial drive to complete the KITE model.

The degree is particularly pertinent for developing countries like Pakistan, which are embroiled in a myriad of challenges (political, legal, economic and social) and lack the requisite expertise required to tackle these complex issues.

Economics

Students receive rigorous training in economic theory and its application. They examine decision making in the context of a market economy, and the institutional support that helps such an economy to operate effectively. PERL enables students to understand the interplay between economic ideas and economic behavior on the one hand and the working of the political process and government policy on the other. They also gain insight into a variety of areas including international trade, monetary systems, allocation of resources etc. Additionally, the study of economics teaches students a variety of practical skills, including the ability to comprehend, utilize and evaluate evidence in order to reach accurate conclusions and consequently make sound recommendations.





Rhetoric

Rhetoric is the study of effective communication (oral and written), and the art of persuasion. It trains students to understand how spoken and written language function while developing proficiency in their own speaking and writing ability. Students comprehensively study the effectiveness of language, analyze the functions of discourse in various forms, and explore the theoretical, historical, and cultural dimensions of interpretation and criticism, in diverse fields such as politics, economics, law, gender, media studies, philosophy, and literature. PERL students acquire essential skills such as analytical problem solving, teamwork, research and organizing and communicating information.

Politics

As the inter play between individuals, groups and nations becomes increasingly complex, questions of autonomy and authority challenge every citizen. PERL pushes students to think critically about political philosophy, evaluate political concepts and theories, and intimately understand political processes and systems. They learn how political negotiation takes place and how ideological and resource conflict can be prevented. Students grapple with questions of identity and nationhood, while learning to appreciate rather than resist the otherness of individuals and societies around the world.



Law

Offerings in philosophy, history and evolution of law are part of the PERL curriculum. Students develop a thorough understanding of the legislative process in Pakistan. They also examine comparative legal systems, Islamic jurisprudence and the interplay between politics, economics and law, in order to become well aware and ethical citizens.



Jobs and Future Prospects in PERL

PERL is an ideal program for students seeking to obtain the sort of well-rounded education that will prepare them for a diversity of careers requiring advanced critical thinking, analytical and communication skills. The flexibility this degree provides develops transferable interdisciplinary skills in students and gives them a competitive edge in an increasingly globalized world. Graduates can pursue careers in:

- diplomacy
- journalism
- government
- education (teaching and administration)
- research organizations and think-tanks
- international business

Students majoring in PERL can also take their civil services exams and work for a government organization such as Pakistani Foreign Service, go on to law school and obtain graduate degrees in a variety of disciplines.

School of Arts and Design (SoAD)



Computer Arts

Graphic Design

Animation

Media Production

Why Computer Arts?

The demand for designers possessing both artistic creativity and technical skills, as well as an advanced understanding of new media, has risen dramatically at a local and global level. Advances in digital technology have taken multi-media to new heights due to the exciting possibilities of graphic design, web design, audio and video production, computer animation, game design, advertising design and visual effects.



Concentrations

Graphic Design
Animation
Media Production

B.A. in Computer Arts at KITE

This program allows students to explore the connections between technology and arts. Students acquire technical skills in digital illustration, photo editing, graphic design, game design, video production, audio design and 2D and 3D production techniques.

Students undertake a mix of independent or collaborative design projects such as advertisements, posters, banners, websites, magazines, logos and brand identity development, corporate publications etc. which build their visual thinking, design techniques, research skills, idea generation and concept development skills. In the last two years they apply their acquired knowledge to digital media production through a range of faculty led projects as well as interactive projects with mentors from technology and digital media companies.

Through KITE's Computer Arts program, students learn to:

- i) produce 2D and 3D artwork for a range of interfaces and platforms, such as computers games, film, animations etc
- ii) apply technical expertise to static and dynamic media to produce innovative products
- iii) entrepreneurial and project management skills



Jobs and Future Prospects in Computer Arts

KITE's Computer Arts graduates are artist technologists who possess a sophisticated understanding of design and strong technical skills. They possess highly valued artistic and professional expertise increasingly sought after by a wide range of design companies. Career opportunities exist in:

- computer games development
- electronic entertainment
- design visualization
- animation
- interaction design and interactive products
- media (audio-visual) production for television and film
- web design
- advertising
- marketing

Typical job titles include the following: graphics designer, web designer, animator, game designer, modeler, visual effects artist, digital artist, creative director, production artist, art creator and illustrator.

Graduates can also be attached with industry professionals to develop their own portfolio in preparation for self-employment, or establish their own companies. It is also possible to find international employment and be deployed on international projects that pay competitive salaries.

School of Business



BBA

Accounting & Finance

Human Resources

Marketing

Entrepreneurship

Why a Tech-centric BBA?

The advent of the dot-com era has led to increasing demand for tech-savvy individuals, who possess the managerial capacity to run existing companies and the entrepreneurial drive to establish new ones. Continuous innovations and growth in technology require these managers and entrepreneurs to be well-versed with the fundamental concepts and practices of business administration as well as the current trends and language used in the technology industry. A tech-centric BBA is the perfect launching pad for those aspiring to lead corporate innovation.



Concentrations

Accounting & Finance
Human Resources
Marketing
Entrepreneurship




Bachelor's of Business Administration at KITE

KITE's BBA program provides a solid foundation in business administration and management, marketing and finance. Additionally, it offers students the opportunity to develop and deploy technology in line with effective management principles. The KITE Business School experience is unique theoretical knowledge is supplemented with practical experience through case studies project work, experiential learning and internship.

Moreover, Entrepreneurship education is integrated within the degree, in order to:

- i) Illustrate challenges of creating high potential enterprises
- ii) Analyze successful and unsuccessful startup initiatives
- iii) Identify and mitigate key risks, particularly pertaining to personnel, markets and products

In the final year, all students are expected to develop their own business projects, in which they learn to develop a technological idea, assess its business potential as a commercial opportunity, prepare business and financial forecasts, and develop marketing strategies. Students can also pilot their projects at KITE's Incubation Center, which offers legal, technical, financial and other support. Structured internship opportunities in technology firms are made available for students to gain first hand experience.



Jobs and Future Prospects in Business Administration

KITE has established networks with national and international IT companies and private businesses. Upon graduation, students have access to job opportunities both within and outside Pakistan and:

- potential angel investors
- business partners
- venture capitalists

There is immense scope for high-paying jobs and profitable self-employment opportunities after completing this degree. Students with academic aspirations can pursue further education at leading universities around the world.



Other Projects of EduEnrich

KITE-Professional Development Center



KITE-Professional Development Center (KITE-PDC) is a project that takes an intensive hands-on approach to training students, fresh graduates and young professionals in order to improve their employability. KITE-PDC's short and medium-term courses bridge the gap between education and industry ensuring better employment and self-employment opportunities and a quick return on investment.

Starting in February 2013, KITE-PDC offers a four month intensive transition course which helps train engineering, natural science and mathematics students in the fundamentals of computer science. This coursework equips students with computational thinking skills, increasing their occupational mobility so they can find competitive jobs with high-paying salaries both at home and abroad. Additional offerings at KITE-PDC include web design, game design, digital marketing, entrepreneurship and cyber law.

KITE-Technology Incubation Center

KITE-Technology Incubation Center (KITE-TIC)'s goal is to provide young, enthusiastic entrepreneurs with the opportunity to start their own businesses. It is a platform that helps budding entrepreneurs overcome the daunting task of establishing an enterprise, by providing them with the necessary framework and infrastructure as well as networking prospects with other successful new ventures, so they can bring their creative ideas to fruition.



The Center reduces start-up impediments for small companies by providing state-of-the-art office spaces equipped with basic amenities (water and electricity). It also offers a range of corporate facilities (phone and internet connectivity, multimedia-equipped seminar rooms and an executive meeting room, video-conferencing, access to photocopiers, scanners and fax machines) and support services (risk management, legal consultation, financial and fundraising advice, international sales and marketing, accounting support and project planning). Furthermore, a team of industry professionals will provide mentorship and guidance to budding entrepreneurs in setting up a new enterprise.

Career Guidance

Career Guidance is an initiative of EduEnrich, launched in 2012, helping Pakistani school-going students at a crucial crossroads choose their future career paths. Through an active online presence (a Facebook page and a dedicated website), students receive quality advice about which career is right for them, how they can prepare for it, which colleges/universities have the most suitable programs and what the status of the job market is for their desired field.



Hackers' Hostel



Hackers' Hostel aims to house a community of programmers, designers, technologists and IT specialists who can exchange innovative ideas in order to lead technopreneurship (technological entrepreneurship) in Pakistan. Located at the KITE Campus, it offers basic amenities (accommodation, food, electricity, wireless internet and other utilities) at a minimal cost as well as proximity to the Technological Incubation Center (KITE-TIC) where they have a host of facilities and support services at their disposal.



Karachi Institute of Technology and Entrepreneurship

Address : Plot 3&3A, Sector 47, Korangi Creek Road,
Karachi

Phone : +92-21-35092201/2

Email : info@kite.edu.pk

Website : www.kite.edu.pk



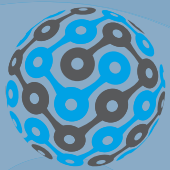
The Education Enrichment Foundation

Address : 4th Floor, 36C, Bokhari Commercial
Lane # 7 DHA Phase 6, Karachi

Phone : +92-21-35092200

Email : info@eduenrich.org

Website : www.eduenrich.org



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www.kite.edu.pk