

# OUR PLEDGE

## FKA Vision

“To be a world-class education and research centre in Civil Engineering”

## FKA Mission

“To spearhead excellence in academic and technology development through creativity.

## FKA Motto

“Always Ahead”

## FKA Quality Objectives

To produce quality graduates through the implementation of an integrated curriculum that meets market requirements.

To enhance and provide professional service in Civil Engineering.

To expand the strategic partnerships between the university and the industry.

To enhance research output and the quality of writing.

To enhance the planned continuing education system.

To enhance the skills and professional human capital development.

To embrace the effective team-work culture in a conducive environment.

FKA is proud to be a world class centre of Undergraduates and Postgraduate study and research in civil engineering producing holistic and highly employable graduates. In doing so, we have set clear and specific outcomes or attributes that the students should attain upon graduation, known as Programme Learning Outcomes (PO).

In the long run we also expect the students to possess the attribute listed as the Programme Educational Objectives (PEO). The PEO's and PO's for Under Graduates and Post Graduates are as follows:

## PROGRAMME OBJECTIVES FOR UNDERGRADUATES

PEOs	PROGRAMME OBJECTIVES
PEO1	Graduates are competent, innovative and entrepreneurial in acquiring and applying knowledge towards solving complex civil engineering problems.
PEO2	Graduates possess leadership qualities, able to work, manage in diverse teams and serve the society in multidisciplinary environment.
PEO3	Graduates demonstrate professionalism and uphold ethical values with emphasis on sustainable environment
PEO4	Graduates are able to communicate effectively, possess strong self confidence and recognise the need for life-long learning

**PROGRAMME OUTCOMES FOR UNDERGRADUATES**

POs	PROGRAMME OUTCOMES
PO1 (Acquire Knowledge)	Ability to apply knowledge of science, mathematics, civil engineering principles and other relevant field of studies to solve complex engineering problems
PO2 (Use Technique)	Ability to analyse and use appropriate techniques, resources and modern tools to solve complex engineering problems and activities
PO3 (Analyze & Development)	Ability to design solutions for complex problems and design components, systems, or processes that comply specific requirement with appropriate consideration of other requirements.
PO4 (Critical Thinking & Problem Solving)	Ability to resolve complex problems based on investigation or research using integration of knowledge and the consequent responsibilities relevant to professional practice.
PO5 (Communication Skills)	Ability to communicate effectively and with confidence including complex engineering activities.
PO6 (Entrepreneurship)	Ability to apply engineering, management and finance principles in managing project
PO7 (Team Working)	Ability to function effectively as an individual or in a team to achieve common goals in diverse teams and in multi-disciplinary settings.
PO8 (Life Long Learning)	Ability to perpetually seek and acquire contemporary technological changes.
PO9 (Leadership)	Ability to demonstrate entrepreneurial skills, lead and manage a team effectively in multidisciplinary environment with self- assurance
PO10 (Ethics & Integrity)	Ability to understand the impact of engineering decisions and apply professional ethics for sustainable development.



## PROGRAMME EDUCATIONAL OBJECTIVES FOR POSTGRADUATES

PEOs	PROGRAMME OBJECTIVES
PEO 1	Mastery of competencies and integration of knowledge required in the profession.
PEO 2	An appreciation of the value of lifelong learning and possessing enthusiasm and strong commitment to continued acquisition of new knowledge and skills.
PEO 3	Advanced leadership and team working skills that allow professionals to become visionary and inspirational leaders.
PEO 4	Highly developed oral and written communications skills that fit at all level, appropriate to the field of profession.
PEO 5	An appreciation of the ethics and integrity in management, leadership and good governance, and responsibility to their professions and community.

## PROGRAMME LEARNING OUTCOMES FOR POSTGRADUATES

POs	PROGRAMME OUTCOMES
PO1	<b>Advanced knowledge</b> Graduate are able to incorporate in-depth relevant knowledge in professional practices for the benefits of both national and international communities. Graduates are able to apply their knowledge and skills in the planning, analysis, design and supervision of works related to the civil engineering discipline
PO2	<b>Critical Thinking and Research</b> Graduate are able to manage conducive working environment qualities problem solving and higher order thinking skills. Graduates are technically competent in solving problems logically, analytically and creatively based on sound facts and ideas.
PO3	<b>Communication</b> Graduate are able to apply a wide range of relevant knowledge through effective oral and written communications. Graduates are able to communicate effectively across a range of contexts and audiences.
PO4	<b>Professional Ethics and Integrity</b> Graduate are able to balance professional and ethical responsibilities including contemporary issues and environmental awareness.
PO5	<b>Life-long learning</b> Graduate are able to adopt the latest relevant knowledge and cutting-edge technologies through life-long learning process
PO6	<b>Management and Entrepreneurship</b> Graduates are able to explain managerial concepts and identify business opportunities and initiate action to achieve it.
PO7	<b>Teamwork and Leadership</b> Graduate are able to manage conducive working environment qualities through effective leadership and team working skills that allow professionals to become visionary and inspirational leaders.

