FIRST CITY UNIVERSITY COLLEGE
WAY AHEAD

# Faculty of Engineering and Computing

# Bachelor of Electronic Engineering with Honours

## Programme Educational Objectives

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| **PEO1: Societal Engagement** | Produce graduates that are employed in the electronic engineering or related fields that contribute to well-being of society and societal activities. |
| **PEO2: Professionalism** | Produce graduates that adapt to global working environment as leading professionals by conducting themselves in a responsible and ethical manner. |
| **PEO3: Continuous Personal Development** | Produce graduates that are committed to life-long learning to improve personal competency and keep abreast with the latest development of their profession. |

## Programme Outcomes

**PO1: Engineering knowledge**
Apply knowledge of scientific, electronic engineering and mathematical principles to solve complex engineering problems.

**PO2: Problem analysis**
Identify, formulate and analyse information for complex engineering problems using first principles of sciences and mathematics.

**PO3: Design/development of solutions**
Design solutions for complex systems, components and processes that meet specified needs and considerations for public health, safety, culture, society and environment.

**PO4: Investigation**
Investigate complex engineering problems through research by design of experiment, analysis and interpretation of data.

**PO5: Modern tool usage**
Create, select and use modern scientific, information technology, and engineering tools to model and simulate complex engineering related problems with an understanding of the limitations.

**PO6: The engineer and society**
Assess issues that are related to society, health, safety, legal, culture and responsibilities related to professional engineering.

**PO7: Environment and sustainability**
Understand the impact of professional engineering solutions to environment and society, and demonstrate the need for sustainable development.

**PO8: Ethics**
Apply high level of professional ethics, ethical principles and responsibilities in the engineering profession.

**PO9: Communication**
Communicate effectively on complex engineering activities with engineers and society at large through written and verbal communication channels.

**PO10: Individual and team work**
Work effectively as individual, or in a diverse team as a member or leader.

**PO11: Lifelong learning**
Recognize the need to engage independent lifelong learning to keep abreast with technological advancement.

**PO12: Project management and finance**
Demonstrate knowledge of engineering project management principles and financial feasibility to manage individual or group projects in multidisciplinary environments.

PEO and PO are revised by Programme Review and Development Committee (PRDC) on 25 August 2022.