Bachelor of Computer Science (Hons) (CS)

Programme Aims

The aim of Bachelor of Computer Science (Hons) is to equip graduates with a comprehensive foundation that permits them to adapt to ever-changing computer technologies and industry. This includes Computer Science core theories and practices for the analysis, modelling, evaluation, design, development, and implementation of computing systems.

Programme Objectives

This programme prepares graduates to:

1. be technically competent in design, development and implementation of computing systems
2. possess suitable mathematical background and solid computing knowledge for analysing, modelling, and evaluating computing solutions
3. have strong analytical and critical thinking to solve problems by applying knowledge, principles and skills in Computer Science
4. possess awareness and skills for lifelong learning, research and career development
5. possess communication, team, leadership and interpersonal skills, and awareness of the social, ethical and legal responsibilities
6. have entrepreneurial skill and a broad business and real world perspective

Programme Learning Outcomes

Upon the completion of the programme, the students will be able to:

1. work independently and/or cooperate and contribute as a team to serve the community and nation
2. self-develop, self-learn, and engage in lifelong learning
3. demonstrate knowledge of mathematics and problem solving skills to identify, capture, analyse, formulate, interpret and solve Computer Science related problems
4. apply suitable research and development (R&D) methods and software engineering practices in software development
5. utilise computer algorithms and modern application software for development and implementation of computing systems
6. analyse computational and algorithmic procedures in order to appraise the efficiencies of computing systems
7. organise, lead and manage projects on development of various forms of computer application systems
8. relate the importance of practical issues such as ethics, culture, social, technopreneurship, economics, human relation factors, and time-to-market, and apply these factors in software development practice
9. apply effective soft skills of communication, teamwork and leadership with peers, clients, superiors and society at large